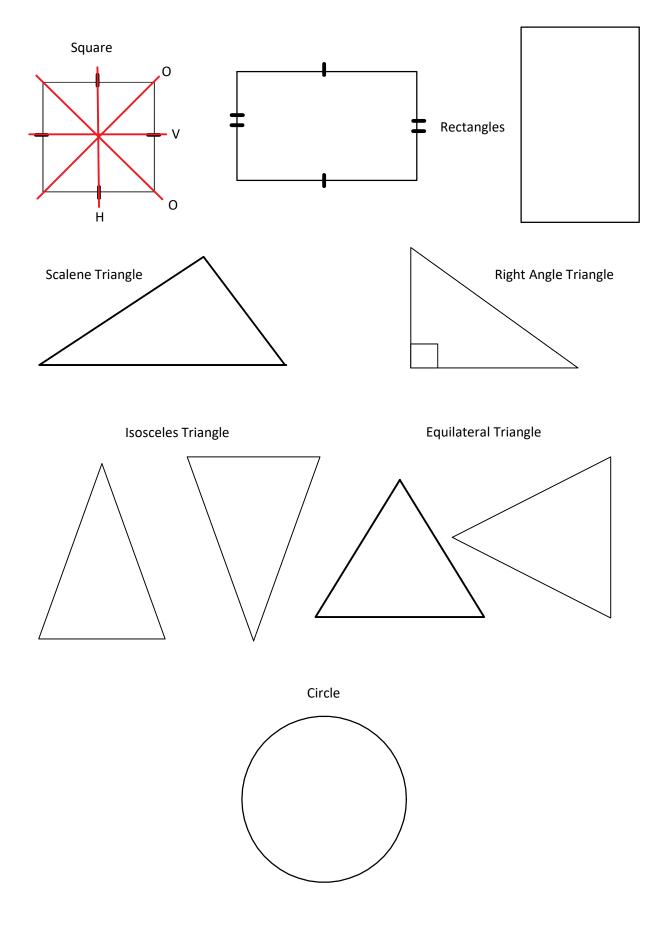
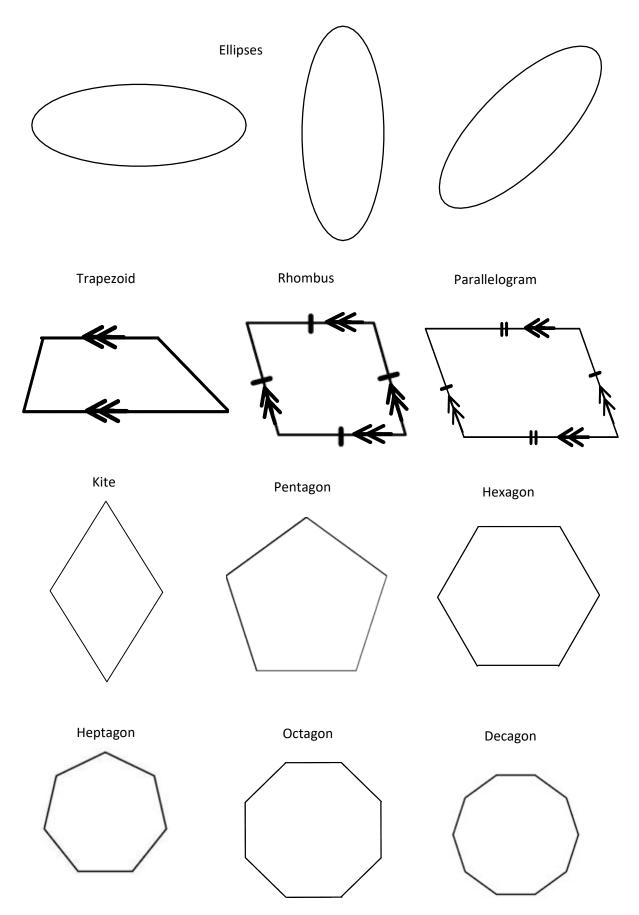
M9 - 1.1 - Draw Lines of Symmetry HW

Draw lines of symmetry and label type H/V/O.



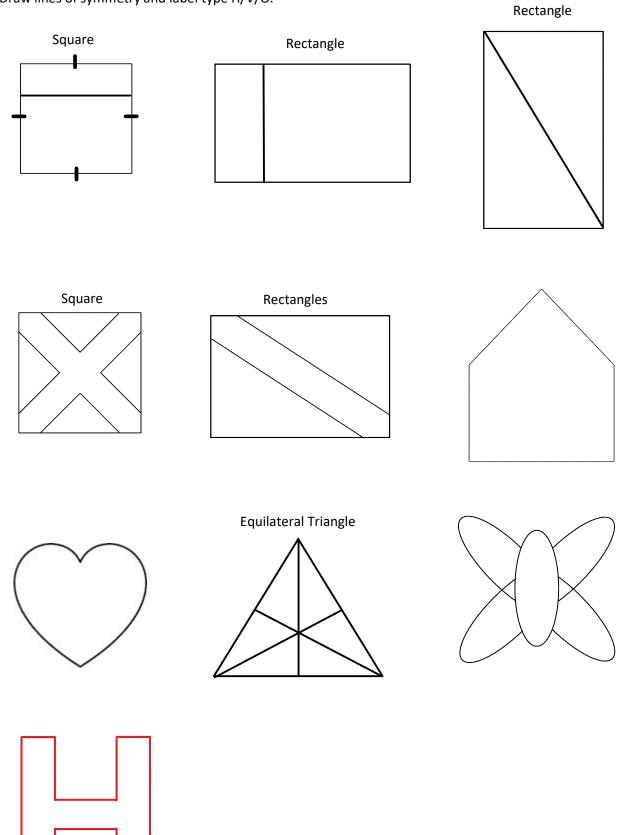
M9 - 1.1 - Draw Lines of Symmetry HW

Draw lines of symmetry and label type H/V/O.



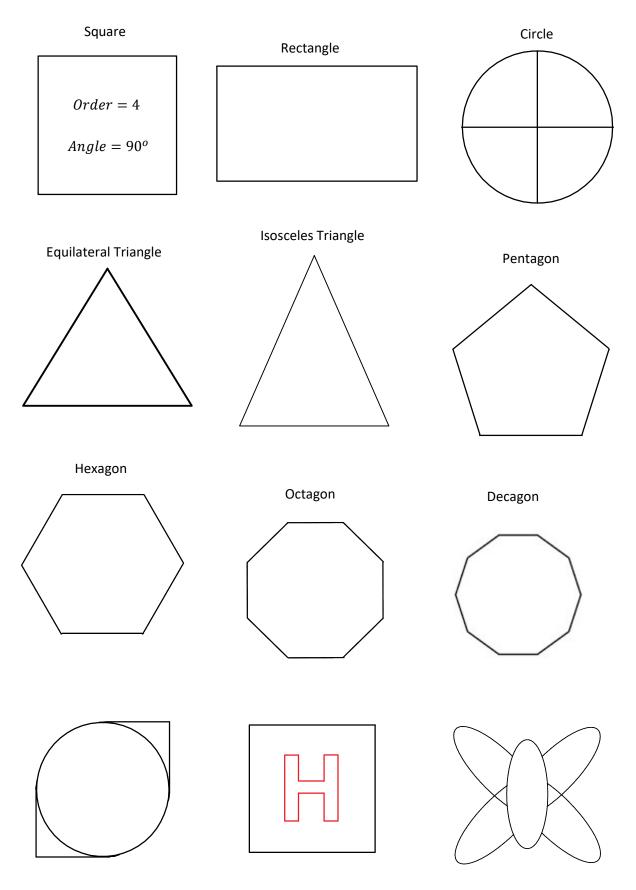
M9 - 1.1 - Draw Lines of Symmetry HW

Draw lines of symmetry and label type H/V/O.



M9 - 1.1 - Rotational Symmetry/Angle of Rotation HW

What is the order of and angle of rotation of the following?



M9 -	2.1 - Roun	ding HMK				
Round th	e following to the I	nundreds place				
123	298	356	3923	200	24	992
Round the	following to the te	ens place				
57	23	63	87	652	565	99
Round of t	the following to the	e ones place				
2.3	10.2	3.5	15.7	7.7	234.8	199.9
Round the	following to the te	nths place				
Nound the	to the te					
0.45	2.61	3.789	0.05	12.123	9	3.99
Round the f	ollowing to the hur	ndredths place				
.005	1.234	20.235	200.007	2.001	4.876	5.099

M9 - 2.2 - Scientif	ic Notation HMK		
Write in Standard Notation			
4.02×10^{3}	8.124×10^{6}		
94×10^{3}	234.68×10^{7}		
Write in Scientific Notation			
2670000	605	5490	
1005	1000000	2700	
1005			
347	53	57000	
0.002	0.0045	0.32	
0.0056	0.034	2.34	
	0.034		
0.00056	0.0000023	0.1	
Write in Scientific Notation an	d Standard Form		
54.6×10^{2}	0.046×10^{-3}		
345×10^{-3}	0.00012 × 10 ⁹		

Write the fo	llowing n	umbers in thei	r hest ann	ronriate nla	re la			
	nowing in		r best app					
			Real	Numbers				
					$\frac{1}{3}$	-2.1476.	. 6	
√7	π	$\sqrt{4}$	$\frac{3}{4}$	√0.16	3			
$\frac{1}{7}$	е	.34256	$\sqrt{4}$	-2	0	100	∛10	
0.3	3√8	8.1	2	-8	-2	$\frac{1}{9}$	$3\frac{8}{\sqrt{27}}$	
0.5		0.1	Z	0			ν27	
	Irration	al Numbers			R	ational Numb	bers	
						Integers		
-								
						Whole Numb	ers	
						Natural Num	bers	
-								

M9 - 3.1 - Add/Subract Exponent Laws HW

 Write each product as a repeated multiplication then as a single exponent (power).

$$3^2 \times 3^3 = \underbrace{3^{2} \times 3^3}_{3^2} \underbrace{3^3 \times 3^3}_{3^2} \underbrace{(-4)^3 \times (-4)^5}_{3^2} \underbrace{(-4)^3 \times (-4)^5}_{4^2} \underbrace{(-4)^3 \times (-4)^5}_{4^2} \underbrace{(-4)^3 \times (-4)^5}_{4^2} \underbrace{(-4)^3 \times (-4)^5}_{4^2} \underbrace{(-4)^3 \times (-4)^5}_{3^2} \underbrace{(-4)^3 \times (-2)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^3 \times (-2)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^3 \times (-2)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^3 \times (-2)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^5 \times (-2)^3 \times (-2)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^3 \times (-2)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^6 \times (-4)^6 \times (-4)^6}_{4^2} \underbrace{(-4)^3 \times (-4)^6 \times (-4)$$

Write each product as	s a repeated multiplica	tion then as a single exp	onent (power).	
			u	
$(3^3)^2 = (3 \times 3 \times 3)^2$	$= \underbrace{(3 \times 3 \times 3) \times (3 \times 3)}_{3 \times 3} \times \underbrace{(3 \times 3)}_{$	3×3) € 3°		
$(5^2)^3 =$				
$(7^3)^2 =$				
Write the following a	as a single power (exp	onent). Show your work.		
$(4^3)^2 = \underbrace{4^{3\times 2}}_{4^6} \underbrace{4^6}_{4^6}$) (2	$(2^2)^3 =$	$(5^2)^2 =$	
$(8^2)^5 =$	(7	7 ³) ⁴ =	$(9^5)^2 =$	
Write as a multiplica	tion of two powers			
$[7 \times 2]^2 =$	$[3 \times 2]^2 =$	$[5 \times 3]^2 =$	$(6 \times 7)^3 =$	
Write the following a	s a single power.			
$(7 \times 2)^2 =$	$[3 \times 2]^2 =$	$[5 \times 3]^2 =$	$(6 \times 7)^3 =$	
Write as a division o	f two powers.			
$\left(\frac{3}{5}\right)^3 =$	$\left(\frac{5}{7}\right)^2 =$	$\left(\frac{9}{4}\right)^2 =$	$\left(\frac{1}{2}\right)^2 =$	
Multiply the expone	ents.			
$[7x]^2 = 7^2 x^2$	$[3x]^2 =$	$[5x^3]^2 =$	$2[3x^4]^2 =$	

M9 - 3.3 - Multiplication-Exponential Form (+/-) HW

Write the following in exponential form, then evaluate if possible.

$2 \times 2 \times 2 \times 2 \times 2 = 2^5 = 32$	$-2 \times -2 \times -2 = (-2)^3 = -8$
$4 \times 4 \times 4 =$	$-3 \times -3 \times -3 =$
5 × 5 =	$-5 \times -5 =$
$3 \times 3 \times 3 \times 3 =$	$-6 \times -6 =$
$1 \times 1 \times 1 \times 1 =$	$-5 \times -5 \times -5 \times -5 =$
9 × 9 =	$-6 \times -6 \times -6 \times -6 =$
$6 \times 6 \times 6 =$	$(-2) \times (-2) \times (-2) = (-2)^3 = -8$
$x \times x =$	$(-2) \times (-2) \times (-2) \times (-2) =$
$a \times a \times a =$	$(-m) \times (-m) \times (-m) =$
$5 = 5^1 = 5$	(-a)(-a) =
6 =	$-4 \times 4 \times 4 = -4^3 = -64$
$(3)(3)(3) = (3)^3 = 27$	-5 × 5 =
(5)(5)(5) =	$-9 \times 9 \times 9 \times 9 =$
(x)(x) =	$-(-2) \times (-2) \times (-2) = -(-2)^3 = 8$
	$-(-2) \times (-2) \times (-2) \times (-2) =$
	-(-3)(-3) =

M9 - 3.3 - Exponential-Multiplication Form (+/-) HW

Write as a repeated multiplication, then evaluate.

$4^2 = \underbrace{4 \times 4}_{16} = \underbrace{16}_{16}$	$-3^4 = -3 \times 3 \times 3 \times 3 = -81$
$2^3 =$	$-5^2 =$
$3^2 =$	$(-2)^4 = (-2)(-2)(-2)(-2) = 16$
2 ⁵ =	$(-2)^2 =$
3 ³ =	$(-1)^4 =$
2 ⁴ =	$(-5)^3 =$
$2^2 =$	$(-2)^3 =$
5 ⁴ =	$-(3)^4 = -(3)(3)(3)(3) = -81$
$4^4 =$	$-(1)^3 =$
3 ⁴ =	$-(2)^2 =$
State whether Positive or Negative	$-(2)^3 =$
$-4^{even} \underbrace{+}_{-3^{odd}} =$	$(-2^3) = (-2 \times 2 \times 2) = -8$
$(-3)^{odd} =$	(-2 ⁴) =
$(-6)^{even} =$	$-(-1)^4 = (-1)(-1)(-1)(-1) = (-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1)$
	$-(-2)^3 =$
$-(-2)^{odd} =$	$-(-3)^3 =$
$-(-5)^{even} =$	$-(-5)^4 =$

-1

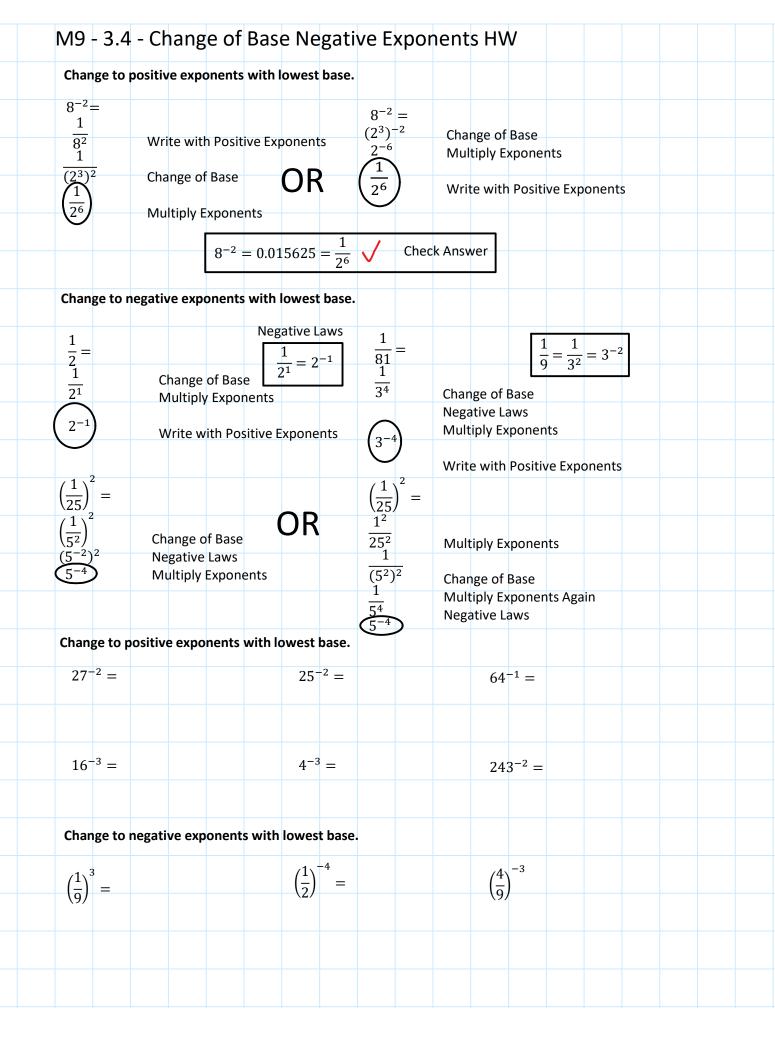
M9 - 3.3	- Perfect Cl	nange of B	ase HW		
Write in squared	l exponential form.				
$4 = 2^{2}$		49 =	169 =		
36 =		9 =	144 =		
50 -) _	177		
100 =		121 =	196 =		
25					
25 =		225 =	400 =		
Write in cubed o	exponential form.				
$27 = 3^3$		64 =	512 =		
		242			
8 =		343 =	1 =		
125 =		216 =	729 =		
		1000 =			
Write to 4th po	wer in exponential	form.			
1=14		81 =	1296 =		
		2401	625 =		
256 =		2401 =	10000		
16 =		6561 =	10000 =		
\sim	erent bases in expo	onential form.			
$16 = 2^4$	64 =	81 =	256 =	4096 =	
$16 = 4^2$	64 =	81 =	256 =	4096 =	
			256 =	4096 =	
				4096 =	

M9 - 3.3 - Imperfect Change	e of Base HW
Change to Exponential Form with Lowest I	
$12 = 3 \times 2^2$	72 =
18 =	75 =
20	
20 =	76 =
24 =	76 =
28 =	80 =
32 =	84 =
40 =	88 =
44 =	90 =
45 =	96 =
	98 =
48 =	
50 =	108 =
52 =	128 =
54 =	135 =
56 =	162 =
	189 =
60 =	
63 =	192 =
69 -	
68 =	

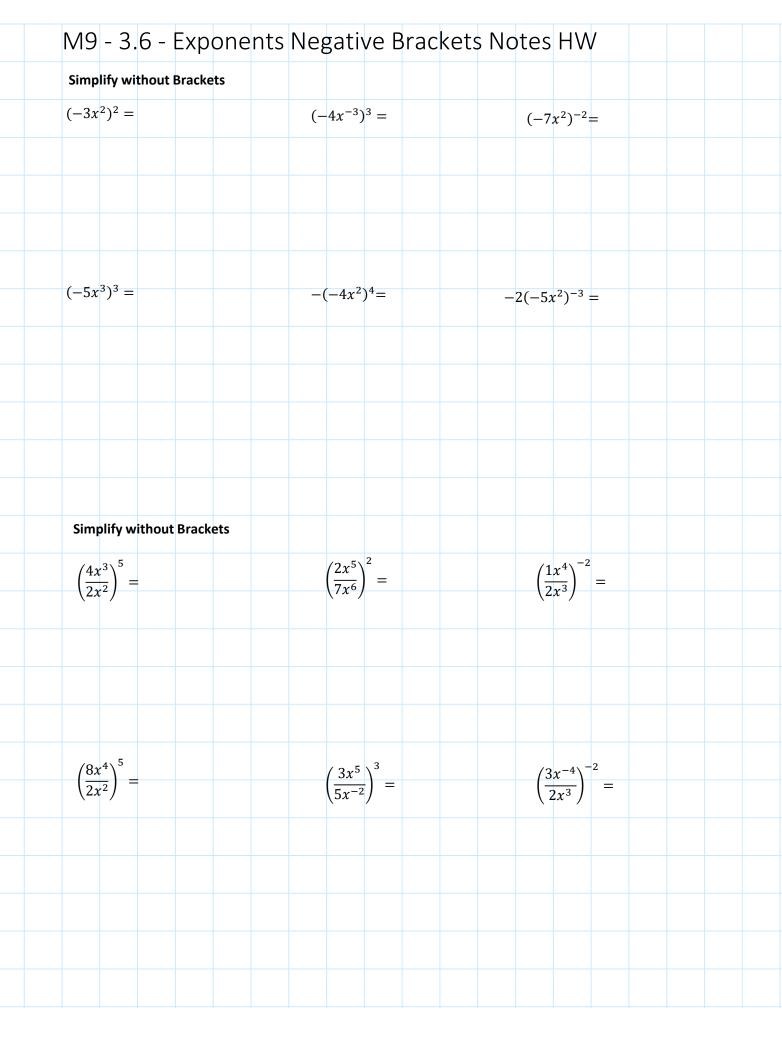
M9	- 3	.3 -	Low	est	Bas	se C	har	ige (of B	ase	НW	,				
		xpone	ntial Fo	rm wi	th Lov	vest Ba	ases									
16 (16 (24 2^{1}	$5^4 = 5^4$				25 ² =	=			16	9 ³ =			12	5 ⁴ =		
(10) (2^4)	$(1)^{4}$															
2																
									62	c 2			10	24 ² =		
64	2 =				16 ⁴ =	_			02	5			10	24 —		
81 ³	³ =				27 ³ =	_			49	5 =			24	$3^2 =$		
1	8 ²					12 ³	_					100 ³	_			
(3^2) (3^4)	$\times 2^{1})^{2}$ $\times 2^{2}$:)				12	-					100	_			
						-						a - "				
72 ²	=					60 ³	=					36 ⁵ =	=			
108 ³	³ =					76 ²	_					128 ⁴	_			
												-				

Write with positiv					
$2^{-3} = \begin{pmatrix} 1 \\ 2^3 \end{pmatrix} \begin{bmatrix} 2^{-3} \end{bmatrix}$	$= 0.125 = \frac{1}{2^3}$ Check Answer	3 ⁻⁴ =	$6^{-2} =$		
5 ⁻² =		$9^{-2} =$	$3^{-3} =$		
$\frac{1}{2^{-3}} =$		$\frac{1}{7^{-2}} =$	$\frac{1}{4^{-1}} =$		
$\frac{1}{3^{-4}} =$		$\frac{1}{8^{-5}} =$	$\frac{1}{6^{-9}} =$		
$2x^{-2} =$		$\frac{1}{2x^{-2}} =$			
$2^{-3}x =$		$\frac{1}{2^{-3}x} =$			
		$\frac{2^{-3}x}{\frac{1}{2^{-3}x^{-2}}} =$			
$2^{-3}x^{-2} =$		$2^{-3}x^{-2}$			
$\frac{5}{2y^{-3}} =$		$\frac{x^2}{y^{-3}} =$			
$\frac{5}{3^{-2}y^{-3}} =$		$\frac{x^{-2}}{y^{-3}} =$			
		y ⁻³			
$\frac{4}{(2x)^{-2}} =$		$\frac{a^{-2}}{(2y)^{-4}}$			
Write with nega					
2 ³ =	$\frac{1}{2^3} =$	$\frac{1}{2x^3} =$	=	$\frac{2}{x^3} =$	

M9 - 3.4 - Negativ	e Exponents HW	
Write with Negative exponents		
$\frac{6^2}{6^4} =$	$\frac{9^2}{9^3} =$	$5^4 \div 5^5 =$
$\frac{7}{7^2} =$	$\frac{7}{7^2} =$	$2^2 \div 2^5 =$
Write with Positive exponents		
$\frac{6^2}{6^4} =$	$\frac{9^2}{9^3} =$	$5^4 \div 5^5 =$
$\frac{7}{7^2} =$	$\frac{7}{7^2} =$	$2^2 \div 2^5 =$
Write with Positive exponents $\left(\frac{2}{3}\right)^{-2} =$	$\left(\frac{5}{7}\right)^{-4} =$	$\left(\frac{1}{2}\right)^{-3} =$
Write with Positive exponents		
$\frac{5^{-3}}{5^2} =$	$\frac{6^2}{6^{-1}} =$	$8^3 \div 8^{-4} =$
$\frac{9^{-4}}{9^{-3}} =$	$\frac{4}{4^2} =$	$7^{-2} \div 7^{-5} =$
Write with Positive exponents		
$\frac{2x^{-2}}{y^{-4}} =$	$\frac{5x^2}{y^{-4}} =$	$\frac{5x^{-2}}{2y^4} =$
$\frac{4a^{-3}}{b^{-4}} =$	$\frac{a^{-2}}{5b^{-5}} =$	$\frac{(6a)^{-2}}{b^5} =$



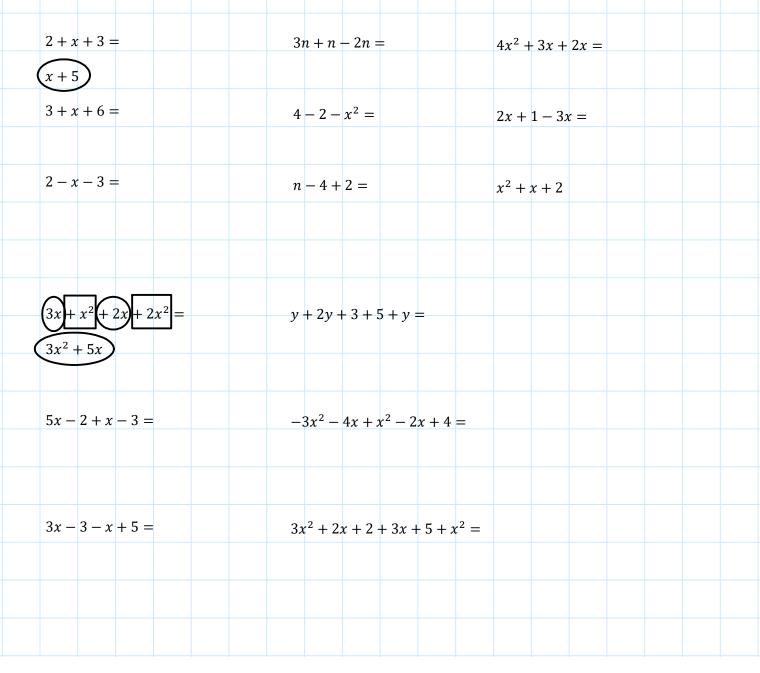
M9 - 3	3.5 - (Combo	Expone	ents Lav	ws HW			
Simplify								
			4	$\frac{8 \times 2^5}{32} =$		8 ³	$\frac{\times 2^{10}}{5 \times 4^2} =$	
$\frac{2^3 \times 2^5}{2^2}$	=			32 =		256	5×4^2	
$2^8 \times 2^{-3}$			0,	$-1 > 22^{4}$		2-1	× 16 ⁻⁴	
$\frac{2^8 \times 2^{-3}}{16}$			<u> </u>	$\frac{^{-1} \times 32^4}{64^{-2}} =$		1	$\frac{\times 16^{-4}}{28^{-2}} =$	
Simplify								
$\frac{(6x^5y^2)(x^5y^2)}{(2x^4y^2)}$	$(5xy^3) =$			$(6x^5)$	$\frac{y^3)^{-3}(4x^2y)}{(2x^3y)^{-2}}$	⁴) ³ _		
$(2x^4)$,2)				$(2x^3y)^{-2}$			



	_															
M9	- 5.	1 - /	Alge	ebra	ic E	xpr	ess	ions	Н٧	V						
State t	he Coe	fficier	nt and t	the De	gree c	of the ⁻	term.									
			$-2x^{2}$	-	$-3x^{2}$	у	5 <i>x</i>	2	- 3	$3xy^2z$	١	$\sqrt{5x}$	2-4	хy	1xy	
Coeff	icient:															
D	egree:															
State	the de	gree o	f the P	olynor	nial, t	he Lea	ding T	erm ar	nd the	Leadir	ng Coe	fficien	t.			
				5	<i>x</i> – 3	<i>x</i> ²		<i>x</i> ³ +	$4x^{2}$		xv –	$2xy^2$	+ 4			
Dogr											2	2				
Degre																
Leadi	ng Ter	m:														
Leadi	ng Coe	fficier	nt:													
Circle	the fo	llowir	ng poly	nomia	ls and	state	the ty	pe or s	tate w	vhy not	t.					
2~	+ 5			2	x^{-2}				r ² _	- 2 <i>x</i> +	1			$\overline{3x}$ +	0	
	13			Z¢	κ -				л		1		V	3x +	9	
5 <i>x</i>	$y^{2}y + \frac{3}{2}$	<u>-</u>		6					$\sqrt{5}x$	+ 3			е	<i>x</i> ²		
6 <i>x</i>	+ 2			<i>x</i> ²	³ + 3x	c ² – 2	<i>x</i> + 1		<i>y</i> =	logx -	+ 2		0			

M9 - 5.2 - Combin	ing Like Terms HW		
Combine the like terms			
x + x = 2x	-5m - 2m =	$x^2 + x^2 =$	
x + 2x =	2xy - xy =	$2x^2 - x^2 =$	
a + 4a =	x + 1 =	$2y^2 + 3y^2 =$	
3x - 2x =	n + 3n =	$x^2 - x =$	
2a - 2a =	6a - 7a =	$x^2 + 2x^2 =$	
x + 2 =	ab + ba =	$-5w^2 - 2w^2 =$	

Circle, square, or cloud, then combine like terms in ascending degree order.



Multiply the following polyno	mials	
$6 \times 2a = 12a$	$5m \times 2m =$	$2x \times 3x^2 =$
$-4 \times 3m =$	$-5n \times -2n =$	$-5x^3 \times 2x^2 =$
$3x^2 \times 6 =$	$a \times a \times a =$	$x^3 \times 3x^2 =$
$a \times a =$	$2a \times a =$	
		(-5x)(3x) =
Multiply the following polyn	omials.	
3(2 <i>a</i>) =	$x^{2}(-x) =$	$2ab^3(ab^2) =$
-2a(-3) =	2x(5x) =	$3ab^{2}(2b) =$
-5x(-2x) =	$-3a^{2}(2a) =$	$-2a^2b(-b^2) =$
$3xy \times 9xz =$	$5x^2y^3 \times 9xy^3 =$	$-2x^4y^2 - 3x^{-1}y^3 =$
$5x^2 \times yz =$	$5^2 \times yz =$	$5^2 \times 3^2 xyz =$

Divide the following	iding Monomials H		
$6a \div 2 = 3a$	$8m \div 2m =$	$9x^2 \div 3 =$	$12x \div -4x =$
$-6m \div 3 =$	$-10n \div -2n =$	$(-15x) \div (3x) =$	$-8m^2 \div (-2m) =$
$18x^3 \div 3x^2 =$	$-4x^3 \div 2x^2 =$	$x \div x =$	$\frac{6a}{2} =$
$\frac{5}{5} =$	$\frac{1}{1} =$	$\frac{6x}{2x} =$	
$\frac{4a^2}{a} =$	$\frac{6a^2}{2a} =$	$\frac{a}{a} =$	$\frac{x^4}{2x^2} =$
$\frac{12x^3}{4x^2} =$	$\frac{-4x}{-10x^2} =$	$\frac{2a}{3a^2} =$	$\frac{15st^2}{t} =$
$\frac{4st}{-6st} =$	$\frac{-2st^2}{4s^2t^2} =$	$\frac{10b^2c}{5c^2} =$	$\frac{3x^2}{15y} =$
$\frac{24x^2y^3}{16x^3y} =$	$\frac{ab^2}{-3ac} =$	$\frac{-2x^2}{-x} =$	$\frac{-2x}{x^2} =$

M9	- 5	.3 -	Divi	iding	, Pol	lyn	omi	als '	W=I	ЧW							
-				on/subtra					implify			-5x	+ 10				
$\frac{4x+2}{2}$	$=\frac{1}{2}$	$\frac{1}{2} + \frac{1}{2}$	=2x+			3	$\frac{-3}{3} =$					2	+ 10 2	=			
$\frac{4x+2}{-2}$						$\frac{6x}{-}$	$\frac{-3}{3} =$					<u>-5x</u>	: + 10 -2	_			
$\frac{-6x}{3}$	· 6 =					<u>5x</u> -	- 10y	_				6 <i>x</i>	+ 8y				
3							5						+8y -2	=			
4 ~ 2 _	0~ _	16						622	17r	· 1Q							
$4x^2 - 3$	$\frac{8x-}{4}$	<u>16</u> — =						<u> </u>	$\frac{-12x}{-6}$	+ 18	=						
$-5x^{2}$ -	$\frac{-10x}{-5}$	¢ + 20) - =					$\frac{5x^2}{2}$	-10x -5x	y + 20	· =						
$5x^2 + 3$	<i>x</i>					$3x^2$	x = -x					$-5x^{2}$	- 3y				
x						_	x =					x		=			
	2					02	· 4					0~	247				
$\frac{4x^2+x}{-x}$	$\frac{2x}{2} =$					$\frac{8x}{2}$	$\frac{x^2+4x}{2x}$	=				$\frac{-9x}{3x}$	$\frac{-3y}{2} =$	-			
$\frac{-10x^2}{-5}$	- 5x	¢=				10x	$x^2 - 7x$ $5x$	¢ - =				$\frac{9x^3}{}$ +	$\frac{6x^2}{3r}$	- 3x =	=		
	,r						Jr						7				
$\frac{3x-6}{x^2}$;					5 <i>x</i> -	$\frac{-7}{2x} =$					30 <i>x</i> ²	-20x	y + 1	5 <i>y</i> ²		
<i>x</i> ²	-					-2	$\frac{1}{x}$					<u>30x²</u>	<i>x</i>		=	=	
$2x^2 - 6$	6 <i>xy</i> -	+ 4y ²	. <u>_</u>			3xy	y - 4x	$+ 5x^{2}$	- =			5ab –		+ 3a			
	2 <i>y</i> 2						x						ab				

M9 - 5.4 - Distribution HW

Distribute the following by multiplying the number in front/behind of the brackets by both numbers inside the brackets.

numbers inside the brackets.		
2(x+5) =	5(3-x) =	-3(x+7) =
4(x+5)	-9(x+3) =	(x-2)7=
6(3x+4) =	-4(7x+4) =	-2(9x+11) =
-8(3x-7) =		
-o(3x - 7) -	(6x - 9)3 =	5(3x-8) =
x(3x+7) =	4x(x-2) =	(7x - 3)x =
$3x^2(3x-5) =$		
	-7x(3+8x) =	5x(6x-3x) =
$-2(4x^2+8x-2)$	$6(2x^2 - 4x + 1) =$	
$9(2x^2 + 3x + 4) =$	$7x(2x^2 + 5x + 7) =$	
$-(4x^3+3x)2x =$		

M9 - 5.4 - FOIL H\	/V	
(x+3)(x+2)	(n + 5)(n + 9)	(x+6)(x+3)
(x+2)(x+12)	(x + 11)(x + 9)	(p+5)(p+7)
(m-3)(m-8)	(x - 14)(x - 2)	(x-12)(x-3)
(x-6)(x+6)	(n-3)(n+3)	(x+4)(x-4)
(x+5)(x-5)	(<i>p</i> – 12)(<i>p</i> + 6)	(x+9)(x-7)
(y-m)(y+2)	(x-9)(x+z)	(x+y)(x-y)
(6x+3)(x+3)	(5q-4)(q-7)	(6x+7)(x-6)
(3a - 4)(a + 2)	(6x+y)(x-2y)	(9c - d)(d + 7)

M9 - 5	• L	7131	710	ny C			- 1 I V	v				
2(x+4)		2.2	$x(x^{2} +$	- 2 <i>x</i> –	3)			-2x	(x + 1)			
		2,			5)			27	(~ + 1)		Distrib	oution
$(\alpha + 2)(\alpha$	1)		()	F)(<i>m</i>	1 2)			(m. 1	\ \	$(x-2)^2$	(Foil)	
(x + 2)(x -	4)	_	(2x -	5)(x -	+ 3)	((x + 4)	(x - 4)	.)	(x-2)	Distri	oute
											Comb	ine
$(x-2)(x^2 -$	- Ax ± 1)		C	2x + 2	1)(<i>x</i> –	(x - 3)(x - 3)	+ 4)		(
(1 2)(1		.)						,		$(x-2)^3$	Foil Triple F	oil
											Combir	
											Dia Lat	• -
(x+2) + (x	: – 5)					(2	x + 2)	- (x ·	- 5)		Distrib Combii	
(~ 1) (~	1 2) (4	2)										
(x-1) + (x	+ 2)(x	- 3)				(<i>x</i> -	+ 5)(<i>x</i>	- 2) -	- (x +	3)	Foil	
											Distribu	ite
											Combin	e
(x+3) - (x	- 1)(~	⊥ 1)				(x + x)	8) — (2	(x + 2)	(x - 1))		
(x + 3) - (x	TJLI	11)							、 -)	,	Foil	
											Distril Comb	
												-

M9 - 5.4 - Dist	/Foil/Combine H	W	
$2x^2(x-2)$	$-x(x^2-5x+2)$	$2x^{3}(1-x)$	
(1-x)(2+x)	(3-x)(x-4)	2(x+3)(x-4)	-2x(x+5)(x-2)
(x+2)(x+2)	$3(x-2)^2$	6 + (x - 3)	5 - (x + 4)
2(x-1) - 3(x+2)	3x(x+2)	-2x(x-5)	
(x-2)(x+3) - (x-2)(x+3)	3x(x)	(x - 3) - 2(x + 4)(x - 4)	- 3)

The following Diagram	ns are made or	ut of Toothpicks	. Draw another Diagram.	of Values for	
\bigtriangleup \bigtriangleup		\bigtriangleup		Diagrams 1-5.	
Write Let Statements					
Find the	How many T		Which Diagram has		
Equation	in the 8th Di	agram?	21 Toothpicks?		
The following Diagra	me aro mado <i>i</i>	out of Circlos			
		out of circles.	Draw another Diagram.	Create a Table of Values for	
				Diagrams 1-5.	
Write Let Statements	5				
Find the Equation	How many 1 in the 7th Di		Which Diagram has 31 Circles?		

M9 - 6.1 - Patterns Word Problems HW The following Diagrams are made out of Squares. Draw another Diagram. Create a Table of Values for Diagrams 1-5.

Write Let Statements

Find the	How many Toothpicks	Which Diagram has	
Equation	in the 8th Diagram?	21 Toothpicks?	

...

M9 - 6.1 - Patterns Word Problems HW The following Diagrams are made out of Dots. **Create a Table** Draw another Diagram. of Values for Diagrams 1-5. . . . Write Let Statements Find the How many Dots in Which Diagram the 9th diagram? Equation has 21 toothpicks? Draw another Diagram. The following Diagrams are made out of Toothpicks. **Create a Table** of Values for Diagrams 1-5. Write Let Statements How many Toothpicks Which Diagram has Find the 144 Toothpicks? Equation in the 9th Diagram?

M9 - 6.1 - Patterns Word Problems HW

The following Diagrams are made out of Dots.	Draw another Diagram.	Create a Table
		of Values for Diagrams 1-5.

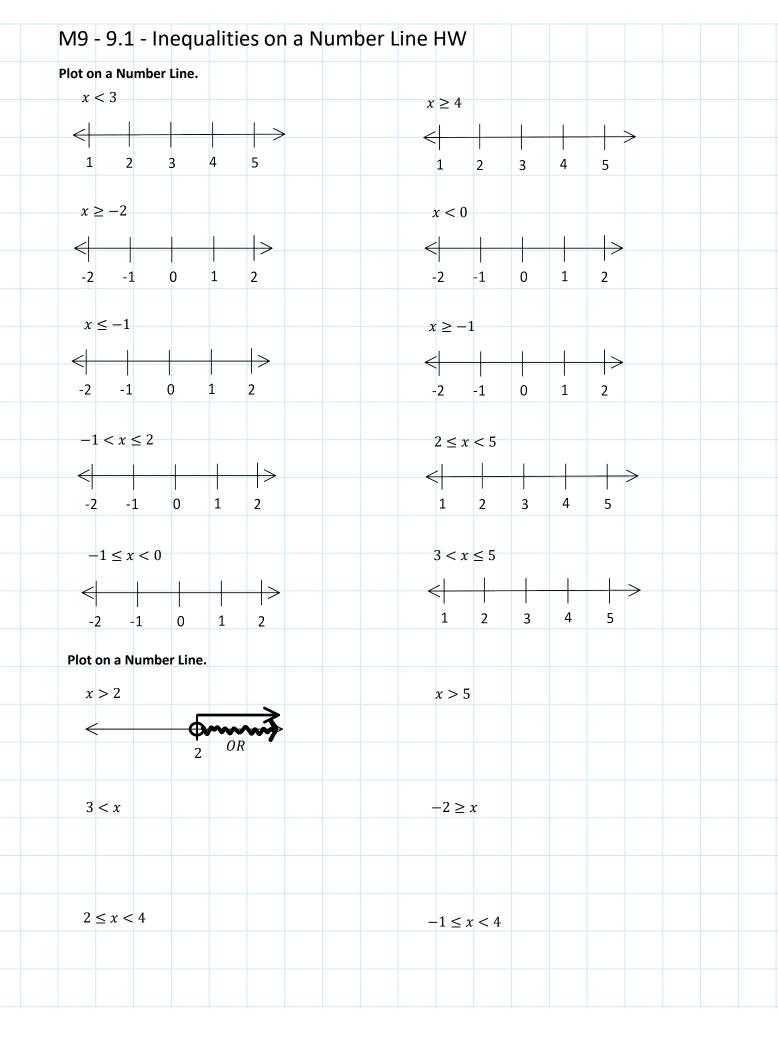
Write Let Statements

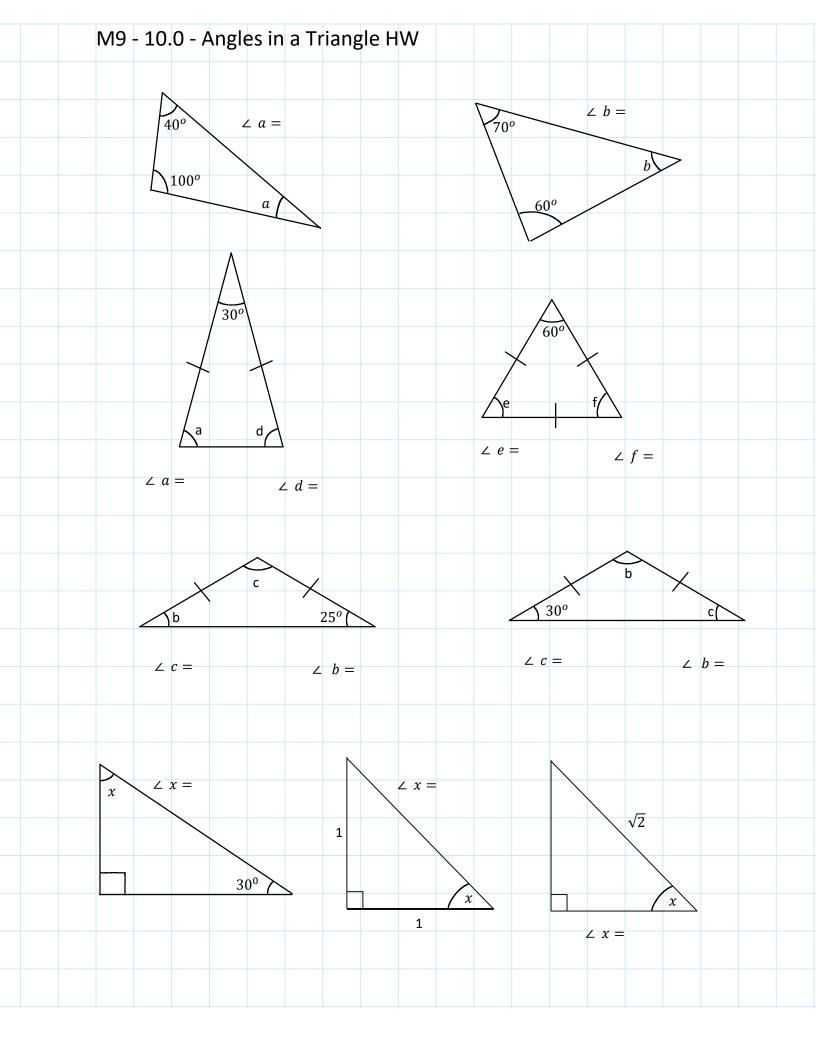
Find the	How many Dots in the	Which Diagram has	
Equation	15th diagram?	108 toothpicks?	
-			

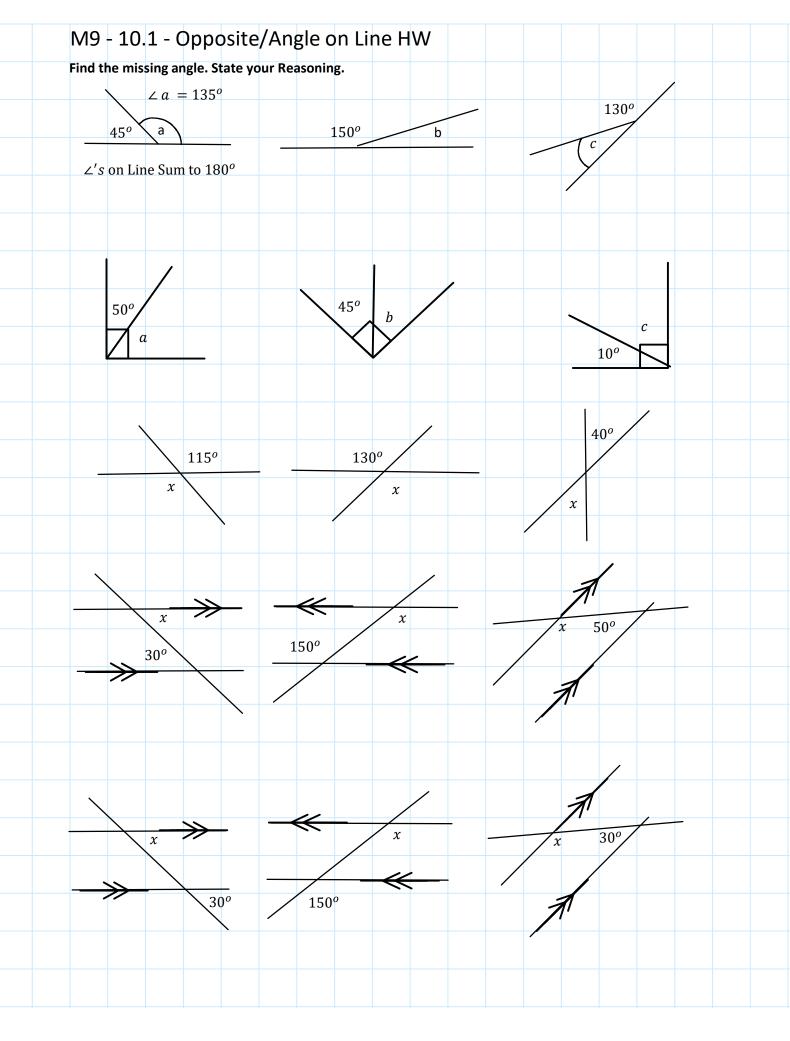
	0.2 -	Lillea	r Patte	err						
Write a	n equatior	n relating	t to n.							
n	t				n	t		n	t	
1	2				1	0		1	3	
2	3	-			2	1		2	6	
3	4				3	2		3	9	
4	5	-			4	3		4	12	
n	t				n	t		n	t	
1	3				1	4		1	2	
2	5				2	7		2	6	
3	7	_			3	10		3	10	
4	9				4	13		4	14	
										1
n	t				n	t		n	t	
1	-2				1	0		1	-1	
2	-4				2	-1		2	-3	-
3	-6			-	3	-2		3	-5	
4	-8			-	4	-3		4	-7	-
				L						

IVI9 -	6.2 -	Linear	Patt	terr	ר s H	N							
Write an	equation	n relating t	to n.										
n	t				n	t				n	t		
1					1					1			
2					2					2			
3		_			3					3			
4					4					4			
n 1	t				n	t				n	t		
1 2		=			1					1		_	
3		-			2					2		_	
4		_		-	4					3		_	
4					4					4		_	
n	t												
1					n 1		t			n	t		
2					2					1		_	
3		_			3					2			
4		_			4				_	3		_	
										4			

M9 -	6.2 -	Curve	Patte	ern	s HV	V				
Write a	n equatio	n relating t	to <i>n.</i>							
n	t				n	t		n	t	
1					1			1		
2					2			2		
3					3			3		
4					4			4		
n	t				n	t		n	t	
1		_			1			1	 	
2		_			2			2		
3		_			3			3		
4					4			4		
				_						
n	t				n	t		n	t	
1					1			1		
2					2			2		
3					3			3		
4					4			4		

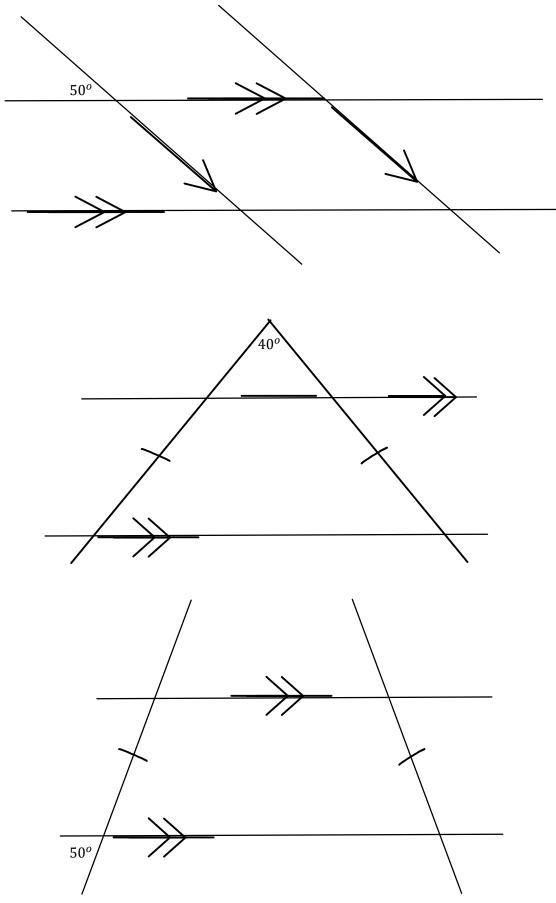






M9 - 10.1 - Opposite/Angle on Line HW

Find All the missing angles.



M9 - 10.1 - Opposite/Angle on Line HW

