

Warm-up 3/22/17

Simplify each expression.

1.  $-3x^2 + 10x^2$

$$(-3 + 10)x^2$$
$$7x^2$$

2.  $-(5x^2 + 4x^2)$

$$-9x^2$$

3.  $(2x^2 - 8) + (12x^2 + 4)$

$$14x^2 - 4$$

4.  $(2x^2 - 8) - (12x^2 + 4)$

$$2x^2 - 8 - 12x^2 - 4$$
$$2x^2 - 12x^2 - 8 - 4$$
$$-10x^2 - 12$$

Pg. 944

$$a_1x^k + a_2x^{k-1} + \dots + a_nx^0$$

Pg. 945

4

$$\frac{4}{x} = 4 \cdot \frac{1}{x} = 4x^{-1}$$

$$\sqrt{x} = x^{1/2}$$

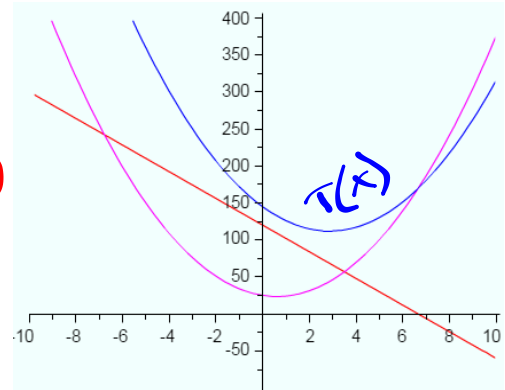
Pg. 947-949

Monomial	Binomial	Trinomial
$\frac{2}{3}$ Degree: 0	$-13s + 6$ Degree: 1	$\frac{4}{5}r^3 + \frac{2}{5}r - 1$ Degree: 3
$12.5t^3$ Degree: 3	$4x - 6x^2$ <del><math>-6x^2 + 4x</math></del> Degree: 2	$-3 + 7n + n^2$ <del><math>n^2 + 7n - 3</math></del> Degree: 2
$-6$ Degree: 0	$5 - 7h$ <del><math>-7h + 5</math></del> Degree: 1	$y^2 - 4y + 10$ Degree: 2
$125p$ Degree: 1	$78j^3 - 3j$ Degree: 3	
	$25 - 18m^2$ <del><math>-18m^2 + 25</math></del> Degree: 2	

Pg. 950-953

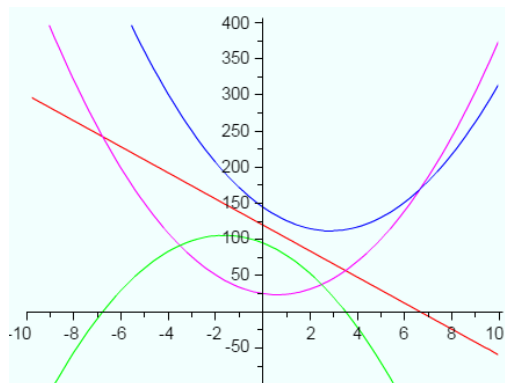
1a  $T(x) = B(x) + H(x)$

6  $T(x) = (-18x + 120) + (4x^2 - 5x + 25)$   
 $= 4x^2 - 23x + 145$



9a  $D(x) = B(x) - H(x)$

11  $D(x) = (-18x + 120) - (4x^2 - 5x + 25)$   
 $= -18x + 120 - 4x^2 + 5x - 25$   
 $= -4x^2 - 13x + 95$



Pg. 955-956

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