Warm up:

Simplify.

1)
$$4(3x - 5) = 12 \times -20$$

2)
$$3(2x + 7) = 6x + 21$$

3)
$$-8(9x - 2) = -72x + 16$$

4)
$$5(x + 6) = 5 \times 30$$

HW Solutions (0,4)(-3,-7) $4 \times = 0 - (-3) = 3$ $4 \times = 0 + (+7) = 11$ $4 \times = 0 + (+7) = 11$ $4 \times = 0 + (+7) = 11$ $4 \times = 0 + (+7) = 11$

$$(2)(-2,4)(6,10)$$

$$\Delta x = -2 - 6 = -8 \rightarrow 8$$

$$\Delta y = 10 - 6 = 4$$

$$8^{2} \cdot 4 = x^{2}$$

$$64 \cdot 16$$

$$80 \cdot 4$$

$$8.94 = x$$

(D) (4,5) (9,10) 9-4=5 $5^{2}+5^{2}+x^{2}$ 10-5=5 25+25 $\sqrt{50=1}x^{2}$ 7.07=x

(3)
$$(1, 2)$$
 $(-2, 11)$
 $1-(-2)=3$ $3^{3}+9^{2}=x^{3}$
 $11-2=9$ $9+81$
 $11-2=9$ $90=1$

$$(6)(3,8)(-1,12)$$

$$3-(-1)=4 \qquad 4^{3}+4^{2}+x^{3}$$

$$12-8-4 \qquad 16+16$$

$$5.66=x$$

$$\frac{(x + 5)(3x + 4)}{3x(x+5)} + 4(x+5)$$

$$\frac{3x^{2} + 15x + 4x + 20}{3x^{2} + 19x + 20}$$

















