



How am I doing?

1. $(2x^2 - 4x + 5) + (7x^2 - 8x - 3)$
2. $(8x^3 - 6x^2 + 3) - (-6x^3 - 4x + 7)$
3. $(4x^2 - 4) - (-5x + 3) + (8x^2 - 8x)$
4. $3(5x^2 + 8x - 7)$
5. $2(7x^2 - 3x + 1) - 3(8x^2 + 5x)$

$$1. \quad | \quad (2x^2 - 4x + 5) \quad + \quad | \quad (7x^2 - 8x - 3)$$

$$\textcircled{2x^2} - \textcircled{4x} + \textcircled{5} + \textcircled{7x^2} - \textcircled{8x} - \textcircled{3}$$

$$9x^2 - 12x + 2$$

$$2. \quad (8x^3 - 6x^2 + 3) - (-6x^3 - 4x + 7)$$

$$8x^3 - 6x^2 + 3 + 6x^3 + 4x - 7$$

$$14x^3 - 6x^2 + 4x - 4$$

$$3. \quad | \overbrace{(4x^2 - 4)} - \overbrace{(-5x + 3)} + \overbrace{(8x^2 - 8x)} |$$

$$\textcircled{4x^2} - \textcircled{4} + \textcircled{5x} - \textcircled{3} + \textcircled{8x^2} - \textcircled{8x}$$

$$12x^2 - 3x - 7$$

$$4. \quad 3(5x^2 + 8x - 7)$$

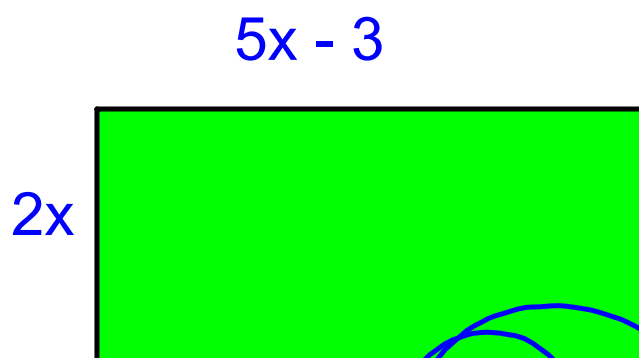
$$15x^2 + 24x - 21$$

$$5. \quad 2(7x^2 - 3x + 1) - 3(8x^2 + 5x)$$

$$14x^2 - 6x + 2 - 24x^2 - 15x$$

$$-10x^2 - 21x + 2$$

Find
Area



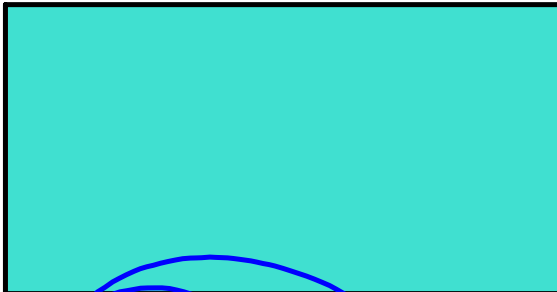
$$A = L \times W$$

↑
Multiplication

$$A = 2x(5x - 3)$$
$$= 10x^2 - 6x$$

Find
Area

$9x^2 + 10$

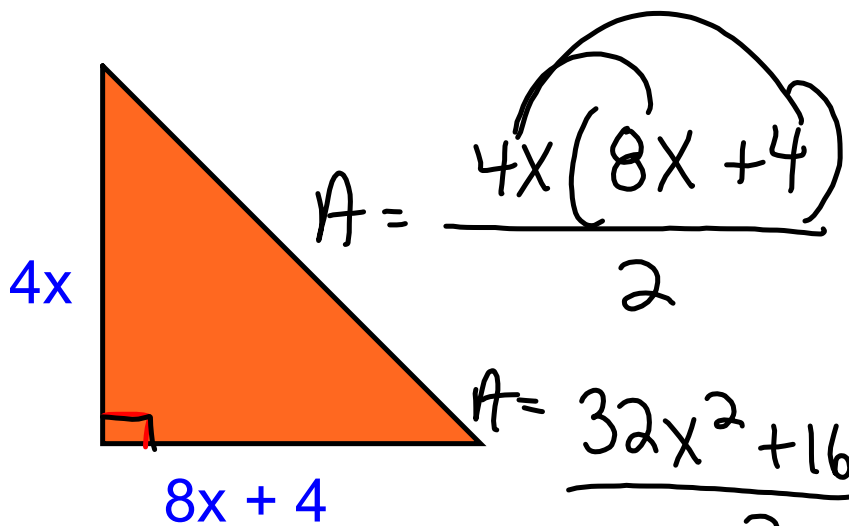


$8x^2$

$8x^2 (9x^2 + 10)$

$72x^4 + 80x^2$

$$A = \frac{b \times h}{2}$$



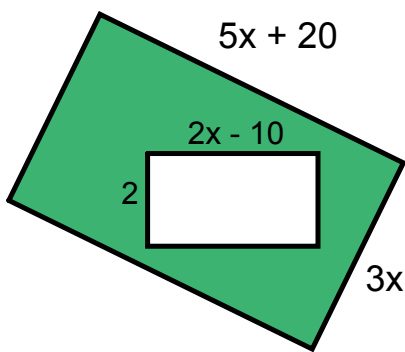
$$A = \frac{4x(8x + 4)}{2}$$

$$A = \frac{32x^2 + 16x}{2}$$

$$A = \frac{32x^2}{2} + \frac{16x}{2}$$

$$A = 16x^2 + 8x$$

Find the Area of the shaded region



Area of Bigger
 $3x(5x+20)$
 $= 15x^2 + 60x$

Area of Smaller
 $2(2x-10)$
 $= 4x - 20$

$$1(15x^2 + 60x) - 1(4x - 20)$$

$$15x^2 + 60x - 4x + 20$$

$$= 15x^2 + 56x + 20$$

