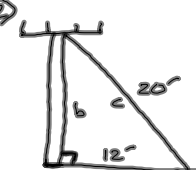


| | |
|--------------------|----------------------|
| 1) 65 cm | 22.25 cm |
| 2) 16 m | 6.93 cm ² |
| 3) 127.28 ft | 77.94 cm |
| 4) Yes (219.32 cm) | 2.7 m |

2) 

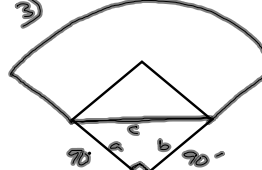
$$a^2 + b^2 = c^2$$

$$(12)^2 + b^2 = 20^2$$

$$144 + b^2 = 400 - 144$$

$$\sqrt{b^2} = \sqrt{256}$$

$$|b| = 16'$$

3) 

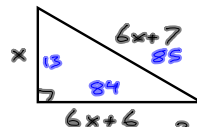
$$a^2 + b^2 = c^2$$

$$90^2 + 90^2 = c^2$$

$$8100 + 8100 = c^2$$

$$\sqrt{16200} = \sqrt{c^2}$$

$$|127.28| = |c|$$

7) 

$$a^2 + b^2 = c^2$$

$$x^2 + (6x+6)^2 = (6x+7)^2$$

$$x^2 + (6x+6)(6x+6) = (6x+7)(6x+7)$$

$$x^2 + 36x^2 + 36x + 36 + 36 = 36x^2 + 42x + 49 + 49$$

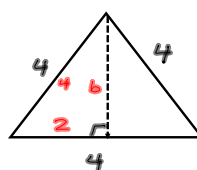
$$x^2 + 72x + 36 = 84x + 49$$

$$x^2 - 12x - 13 = 0$$

$$(x+1)(x-13) = 0$$

$$\{x, 13\}$$

$P = 13 + 84 + 85 = 182 \text{ cm}$

8) 

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(4)(3.46)$$

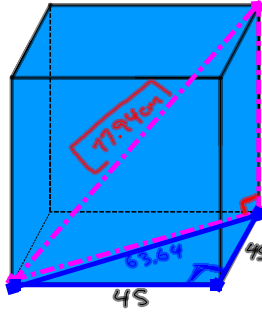
$$a^2 + b^2 = c^2$$

$$2^2 + b^2 = 4^2$$

$$4 + b^2 = 16$$

$$b^2 = 12$$

$$b = 3.46$$

9) 

Blue

$$a^2 + b^2 = c^2$$

$$45^2 + 45^2 = c^2$$

$$2025 + 2025 = c^2$$

$$4050 = c^2$$

$$63.64 = c$$

Purple


$$a^2 + b^2 = c^2$$

$$45^2 + (63.64)^2 = c^2$$

$$2025 + 4050 = c^2$$

$$\sqrt{6075} = \sqrt{c^2}$$

$$77.94 = |c|$$

12) 

$$2^2 + b^2 = 5.2^2$$

$$2^2 + b^2 = 2.9^2$$