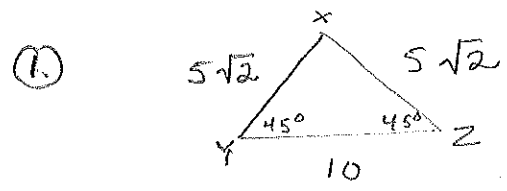
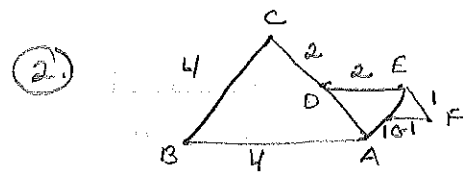


Problem Set: Perimeter/Area



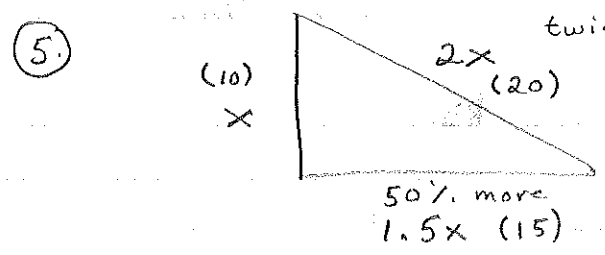
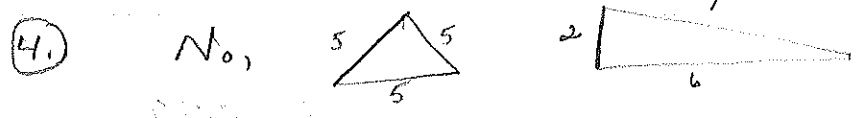
Isosceles

$$10 + 5\sqrt{2} + 5\sqrt{2} = 10 + 10\sqrt{2}$$



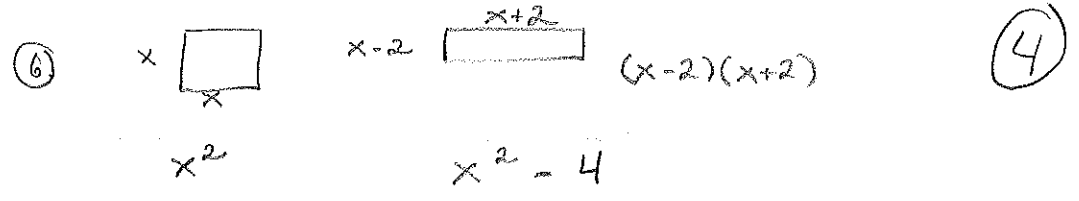
$$P(ABCDEFGH) = 15$$

③ Yes, congruent triangles implies sides are the same length.



$$1.5x + x + 2x = 4.5x = 45$$

$$\Rightarrow x = 10$$



⑦ $d = 18$ $r = 9$ $A = \pi r^2 = \pi (9)^2 = 81\pi$

⑧ $2\pi r = 12\pi$
 $r = 6$
 $A = \pi (6)^2 = 36\pi$

9.

$$r = \pi r^2$$

$$1 = \pi r$$

$$\boxed{\frac{1}{\pi} = r}$$

10.

$$d = 12$$

$$r = 6$$

$$A = \pi (6)^2$$

$$A = 36\pi$$

$$\frac{36\pi}{4} = \frac{100\pi}{\cancel{X}}$$

$$400\pi = 36\pi X$$

$$\boxed{11 \approx X}$$

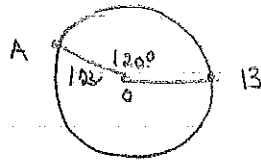
$$d = 20$$

$$r = 10$$

$$A = \pi (10)^2$$

$$A = 100\pi$$

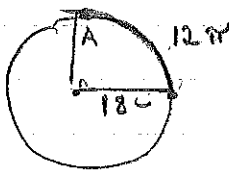
11.



a. $C = 2\pi r = 2\pi(12) = \boxed{24\pi}$ $A = 144\pi$

b. $\frac{1}{3} \pi (12) = \boxed{4\pi}$ $\frac{1}{3} A = 48\pi$

12.



$$\boxed{OC = 18}$$

$$\text{Total circumference} = 2\pi r$$

$$= 2\pi(18) = 36\pi$$

$$\frac{12\pi}{36\pi} = \frac{1}{3} \quad \frac{1}{3} \cdot 360 = \boxed{120^\circ}$$