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Score _____

Answer Key

1. 2
2. a) 12
b) 24
3. 5
4. $2\sqrt{29}$

1. (10 points) Solve for x: $4x^2 - 16x + 16 = 0$

$$4x^2 - 16x + 16 = 0$$

$$4(x^2 - 4x + 4) = 0 \quad (x-2)^2 = 0$$

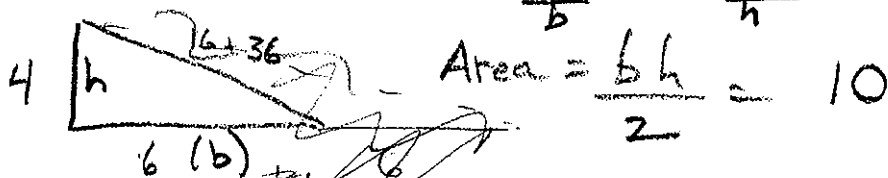
$$x^2 - 4x + 4 = 0$$

$$(x-2)(x-2) = 0 \quad x^2 - 2x - 2x + 4 = x^2 - 4x + 4$$

$$x = 2$$

2. (10 points)

a. What is the area of a triangle with base 6 cm and height 4 cm?



b. What is the area of the triangle if the base is doubled?

$\frac{2bh}{2}$ - base doubled so area doubled
so $A = 24$

3. (10 points) What is the radius of a circle with area = 25π ?

$$\text{Area} = 2\pi r$$

$$25\pi = 2(\pi)r$$

$$25 = 2r$$

$$r = \frac{25}{2} = 12.5$$

4. (10 points) What is the distance between (-2, 3) and (8, -1)?

