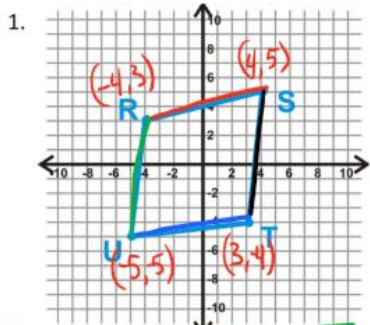
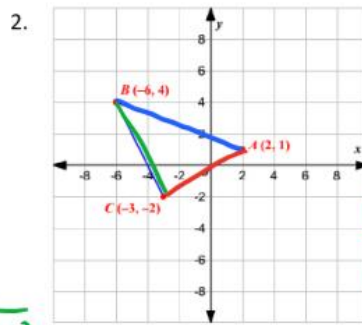


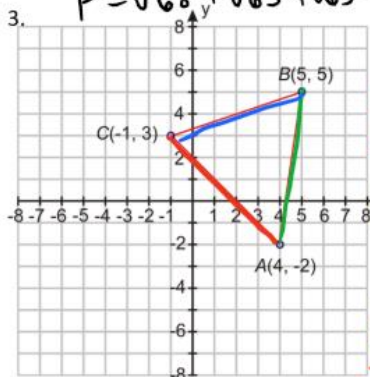
Find the perimeter of the following shapes.



$$\begin{aligned} \overline{RS} &= \sqrt{(-4-4)^2 + (3-5)^2} & \overline{RU} &= \sqrt{(-5-(-4))^2 + (-5-3)^2} \\ \overline{RS} &= \sqrt{64+4} & \overline{RU} &= \sqrt{1+64} \\ \overline{RS} &= \sqrt{68} & \overline{RU} &= \sqrt{65} \\ \overline{UT} &= \sqrt{(-5-3)^2 + (-5-(-4))^2} & \overline{ST} &= \sqrt{(4-3)^2 + (5-(-4))^2} \\ &= \sqrt{64+1} & \overline{ST} &= \sqrt{1+81} \\ \overline{UT} &= \sqrt{65} & \overline{ST} &= \sqrt{82} \\ P &= \sqrt{68} + \sqrt{65} + \sqrt{65} + \sqrt{82} = 33.426 \text{ units} \end{aligned}$$

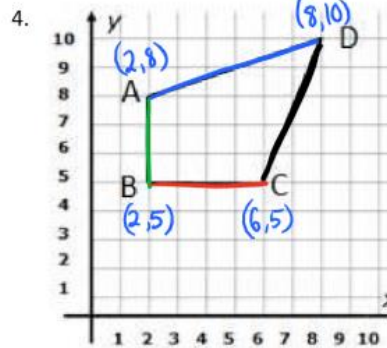


$$\begin{aligned} \overline{AB} &= \sqrt{(2-(-6))^2 + (1-4)^2} \\ \overline{AB} &= \sqrt{64+9} \\ \overline{AB} &= \sqrt{73} \\ \overline{AC} &= \sqrt{(2-(-3))^2 + (1-(-2))^2} \\ \overline{AC} &= \sqrt{25+9} \\ \overline{AC} &= \sqrt{34} \\ \overline{BC} &= \sqrt{(-6-(-3))^2 + (4-(-2))^2} \\ \overline{BC} &= \sqrt{9+36} \\ \overline{BC} &= \sqrt{45} \\ P &= \sqrt{73} + \sqrt{34} + \sqrt{45} = 21.083 \text{ units} \end{aligned}$$



$$\begin{aligned} \overline{AB} &= \sqrt{(4-5)^2 + (-2-5)^2} \\ \overline{AB} &= \sqrt{1+49} \\ \overline{AB} &= \sqrt{50} \\ \overline{BC} &= \sqrt{(5-(-1))^2 + (5-3)^2} \\ \overline{BC} &= \sqrt{36+4} \\ \overline{BC} &= \sqrt{40} \\ \overline{AC} &= \sqrt{(4-(-1))^2 + (-2-3)^2} \\ \overline{AC} &= \sqrt{25+25} \\ \overline{AC} &= \sqrt{50} \end{aligned}$$

$$P = \sqrt{50} + \sqrt{40} + \sqrt{50} = 20.467 \text{ units}$$

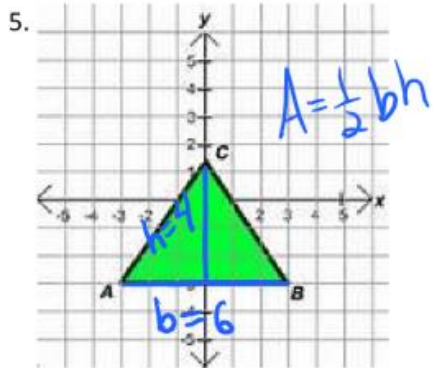


$$\begin{aligned} \overline{AD} &= \sqrt{(8-2)^2 + (10-8)^2} \\ \overline{AD} &= \sqrt{36+4} \\ \overline{AD} &= \sqrt{40} \\ \overline{AB} &= \sqrt{(2-2)^2 + (8-5)^2} \\ \overline{AB} &= \sqrt{0+9} \\ \overline{AB} &= \sqrt{9} = 3 \\ \overline{BC} &= \sqrt{(6-2)^2 + (5-5)^2} \\ \overline{BC} &= \sqrt{16+0} \\ \overline{BC} &= \sqrt{16} = 4 \\ \overline{CD} &= \sqrt{(6-8)^2 + (5-10)^2} \\ \overline{CD} &= \sqrt{4+25} \\ \overline{CD} &= \sqrt{29} \end{aligned}$$

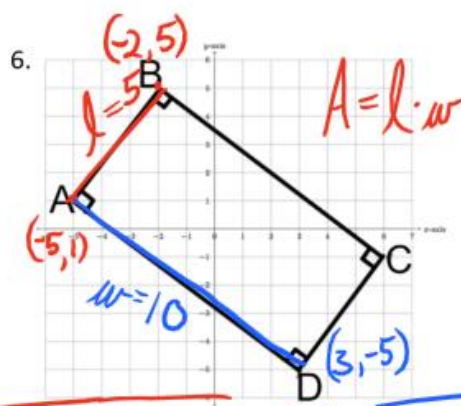
$$P = \sqrt{40} + 3 + 4 + \sqrt{29}$$

$$P = 18.710 \text{ units}$$

Find the area of the following figures.



$$A = \frac{1}{2} (6)(4) = 12 \text{ units}^2$$



$$\overline{AB} = \sqrt{(-5 - (-2))^2 + (1 - 5)^2}$$

$$\overline{AB} = \sqrt{9 + 16}$$

$$\overline{AB} = \sqrt{25} = 5$$

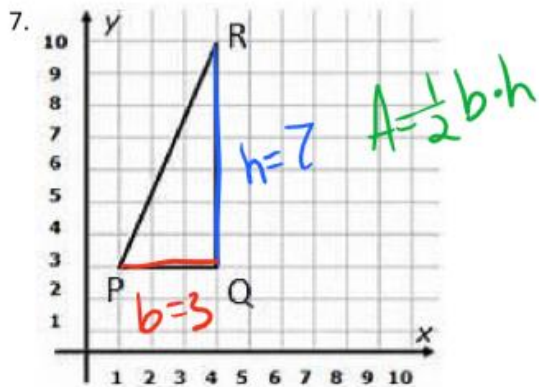
$$\overline{AD} = \sqrt{(-5 - 3)^2 + (1 - (-5))^2}$$

$$\overline{AD} = \sqrt{64 + 36}$$

$$\overline{AD} = \sqrt{100}$$

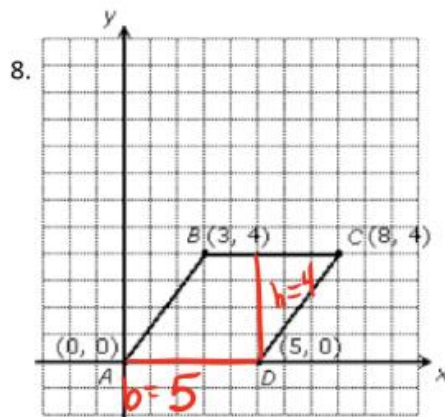
$$\overline{AD} = 10$$

$$A = 10 \cdot 5 = 50 \text{ units}^2$$



$$A = \frac{1}{2} (3)(7)$$

$$A = 10.5 \text{ unit}^2$$



$$A = b \cdot h$$

$$A = 5 \cdot 4$$

$$A = 20 \text{ unit}^2$$