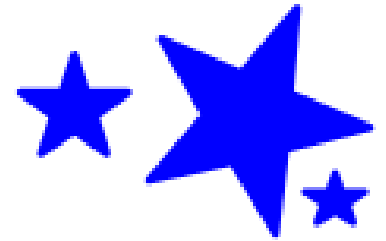


11 - 5

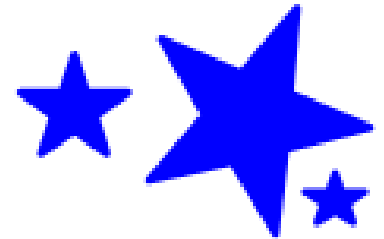
Distance Formula



Distance Formula:

$$d = \sqrt{(x - x)^2 + (y - y)^2}$$

Ex: Find the distance between (-2, 4) and (-1, 6).



$$d = \sqrt{(-2 - (-1))^2 + (4 - 6)^2}$$

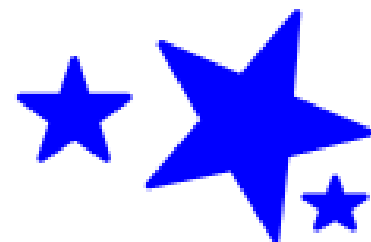
$$d = \sqrt{(-1)^2 + (-2)^2}$$

$$d = \sqrt{1 + 4}$$

$$d = \sqrt{5}$$

$$d = 2.24$$

**Ex: Find the distance between
(4, 2) and (0, 7).**



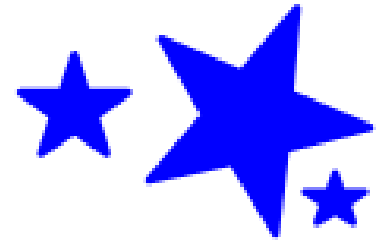
$$d = \sqrt{(4-0)^2 + (2-7)^2}$$

$$d = \sqrt{(4)^2 + (-5)^2}$$

$$d = \sqrt{16+25}$$

$$d = \sqrt{41}$$

$$d = 6.4$$



Homework:

11 - 5 WS (#1 - 9 odd)