



December 18, 2018 Tuesday  $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

$Ax^2 + By^2 + Cx + Dy + E = 0$

1) Change the following equations to general form. 2) Find the midpoint. 3) Find the distance.

$(x-4)^2 + (y-1)^2 = 9$   $x_1, y_1$  and  $x_2, y_2$   $(-3, 2), (1, -5)$

$(x-4)^2 + (y-1)^2 = 9$   $(8, 4)$  and  $(-5, -7)$

$x^2 - 4x - 4x + 16 + y^2 - y - y + 1 = 9$   $\left(\frac{8+5}{2}, \frac{4+7}{2}\right)$   $d = \sqrt{(1-3)^2 + (-5-2)^2}$

$x^2 - 8x + 17 + y^2 - 2y = 9$   $\left(\frac{3}{2}, -\frac{3}{2}\right)$   $d = \sqrt{65}$

$x^2 - 8x + 8 + y^2 - 2y = 0$   $d = 8.1$

$x^2 + y^2 - 8x - 2y + 8 = 0$




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December 19, 2018, Wednesday

Geometry

Semester Exam...

Good Luck!

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Formula sheet:

$y = mx + b$

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

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$(x-h)^2 + (y-k)^2 = r^2$  Center:  $(h, k)$  radius:  $r$

$Ax^2 + By^2 + Cx + Dy + E = 0$

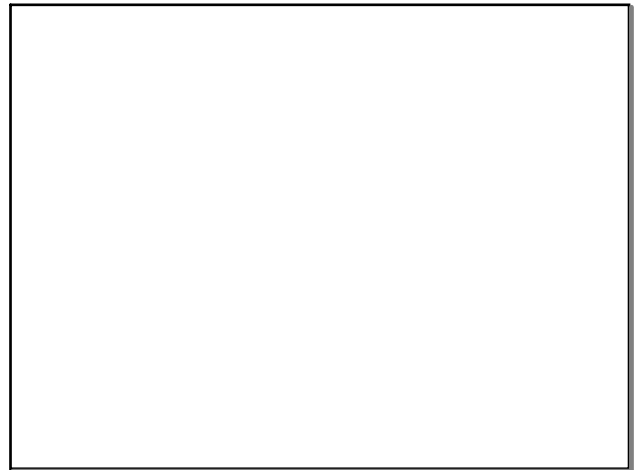
$P = \frac{\text{favorable outcome}}{\text{total outcomes}}$

$m = \frac{\text{rise}}{\text{run}}$

$\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

$d = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$

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