Math 1513 - College Algebra

Quiz #8 - 2011.09.13

Solutions

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1. Name the three common forms for the equation of a line, and give an example of each.

   The three forms are standard form, point-slope form, and slope-intercept form. As example of each, respectively:

   $$2x + 5y = 7, \quad y - 3 = 4(x + 2), \quad y = 4x + 2$$

2. Compute the distance between the points $P = (2, 4)$ and $Q = (-3, 2)$.

$$\begin{aligned} d(P, Q) &= \sqrt{(2 + 3)^2 + (4 - 2)^2} \\ &= \sqrt{29} \end{aligned}$$