1.1 Rectangular Coordinates



Examples:

a) Non-graphically, show that the given points are vertices of a right triangle.

b) Non-graphically, find the midpoint of the line segment joining the points

c.) Non-graphically, find the distance between the points

d.) The quarterback of a football team thre a pass from the 28-yard line, 40 yards from the sideline. The pass was caught by a wide receiver on the 5-yard line, 20 yards from the same sideline. How long was the pass? (drawing a picture could help!)

e.) Penelec Corporation had annual revenues of \$20.6 billion in 2002 and \$24.7 billion in 2004. Without knowing any additional information, what would you estimate that the 2003 revenue would be? (Assuming the revenue follows a linear pattern)

f.) A cylindrical can has a volume of 200 cubic centimeters and a radius of 4 centimeters. Find the height of the can.