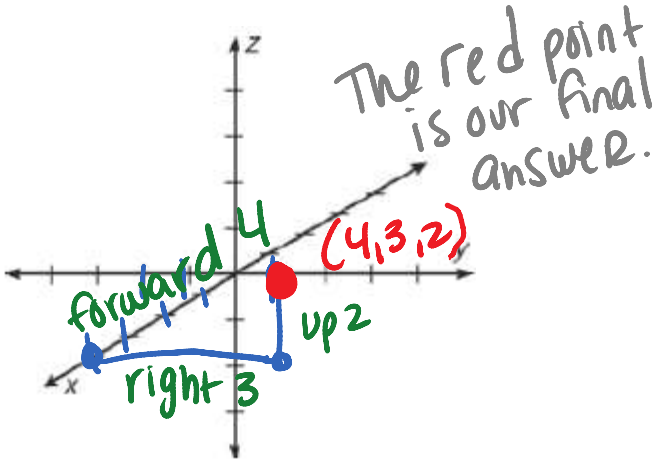
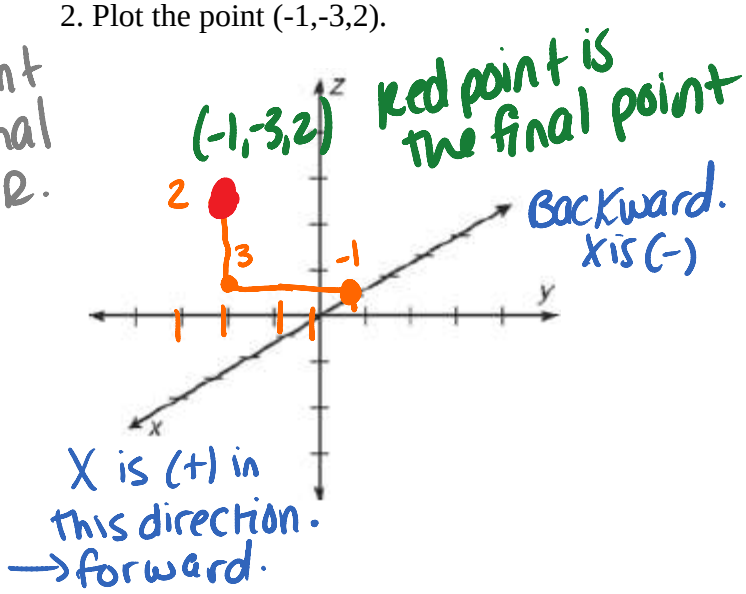
10.1-10.3 Warm-Up

1. Plot the point (4,3,2)



2. Plot the point (-1,-3,2).



3. Find the distance between the given points. Find the midpoint of the segment. (1,5,3) and (-2,7,-4)

$$d=\sqrt{(x_1-x_2)^2+(y_1-y_2)^2+(z_1-z_2)^2}$$

$$d=\sqrt{(1+2)^2+(5-7)^2+(3+4)^2}=\sqrt{3^2+(-2)^2+7^2}$$

$$=\sqrt{9+4+49}$$

$$=\sqrt{62}\approx 7.87$$

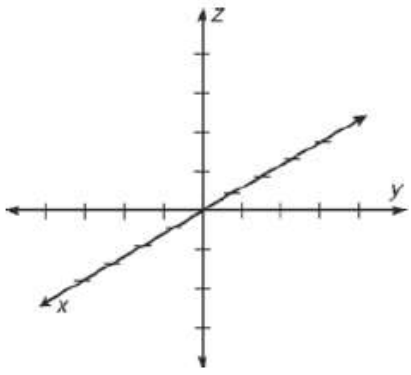
$$m\left(\frac{1+-2}{2},\frac{5+7}{2},\frac{3+-4}{2}\right)$$

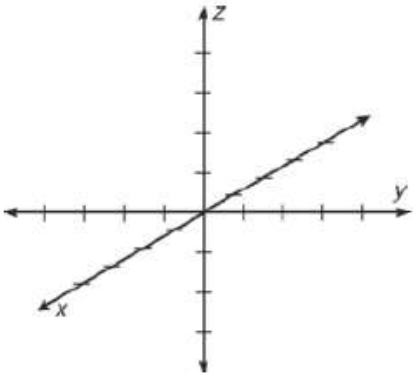
$$m\left(\frac{-1}{2},6,-\frac{1}{2}\right)$$

10.1-10.3 Warm-Up

1. Plot the point (4,3,2)

2. Plot the point (-1,-3,2).





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