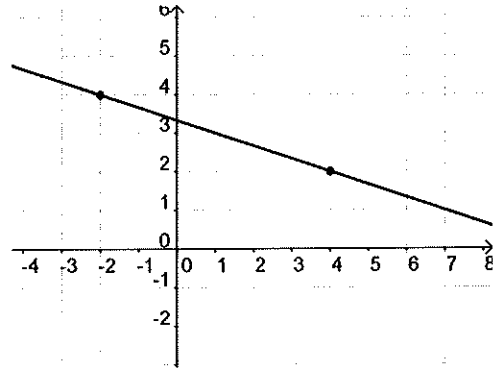


Check Your Understanding
Equations of Lines: Forms of Equations of Lines

Answer these problems, then check your answers using the key on the next page.

#1) Write a point-slope form equation for this line. Then convert the equation to slope-intercept, standard, and general forms.



#2) Convert this equation $(y+1) = -\frac{3}{2}(x-4)$ to...

...slope-intercept form

...standard form

...general form

Answers:

#1) *point - slope*: $(y-4) = -\frac{1}{3}(x+2)$ or $(y-2) = -\frac{1}{3}(x-4)$

slope - intercept: $y = -\frac{1}{3}x + \frac{10}{3}$

standard: $x+3y=10$

general: $x+3y-10=0$

#2) *slope - intercept*: $y = -\frac{3}{2}x + 5$

standard: $3x+2y=10$

general: $3x+2y-10=0$