

Answers to 0800 Final Exam Review:

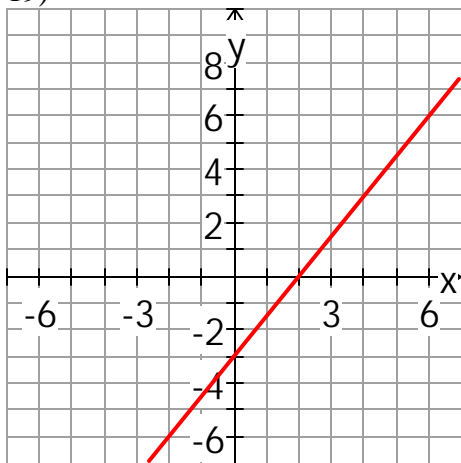
- 1)  $-39$     2)  $-\frac{1}{24}$     3)  $31$     4)  $3(1-5x+3y)$     5) *True*  
 6)  $x = -16$     7)  $x = -\frac{17}{8}$     8) *True*    9)  $A = \frac{1}{2}B - 2$  or  $A = \frac{8-2B}{-4}$

- 10)  $5$     11)  $y \leq -4$  or  $(-\infty, -4]$     12)  $9x^2 - 12xy + 4y^2$

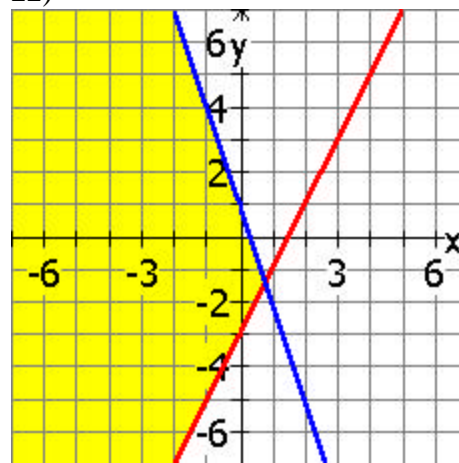
- 13)  $y = 4x + 23$     14)  $f(-3) = 52$     15)  $m = -\frac{3}{5}$

- 16)  $x$ -int  $(\frac{5}{3}, 0)$ ,  $y$ -int  $(0, -5)$     17) 1250 students    18)  $\{x \mid x \text{ is a real number and } x \neq 9\}$

19)

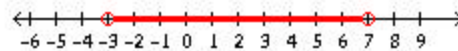


22)



- 20)  $29$     21)  $72x^{12}$

23.  $(-3, 7)$  or



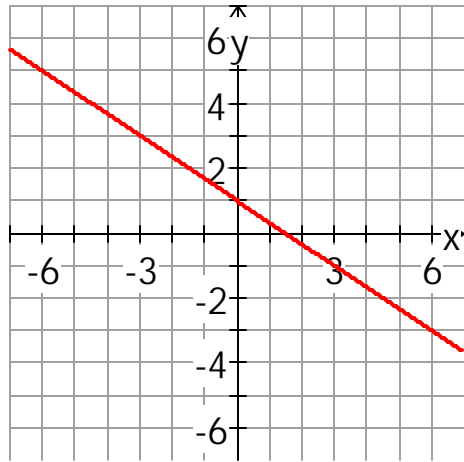
- 24)  $-x^2 + 4x + 1$     25)  $x^8$

26.  $20 \text{ in}^2$     27.  $\frac{7}{6}$     28.  $\{-5, 0, 3\}$     29.  $5(a + 4b - 6c)$

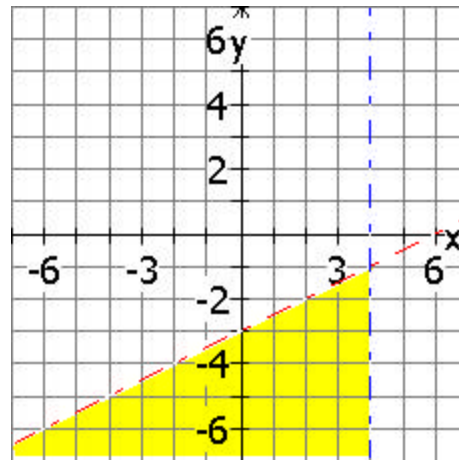
30.  $-x+5$       31.  $\frac{20}{9}$       32.  $P = QR - 2$       33.  $33\frac{1}{3}$  miles

34.  $x > 2$ , or  $(2, \infty)$       35. About 1,236,811 people over the age of 84

36.



42.



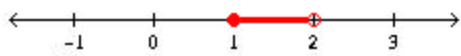
37.  $m = 2$       38. \$100,000

43.  $\{12\}$

39.  $f(-1) = 1$       40.  $[-5, 1]$

41.  $y = 2, m = 0$

44.



or  $[1, 2)$

45.  $x = 2.637$       46.  $-576x^6y^5z^2$       47.  $f(-2) = 20$

48.  $\frac{7}{12}x^2y + \frac{1}{2}xy^2$       49.  $12x^4y^3 - 2x^3y^2 - 7x^2y + 2x$       50.  $4.2 \times 10^{10}$