

MAT 0024 Sample Test 5 - KEY

1) $\sqrt{81} = 9$

2) $\sqrt[3]{8} = 2$

3) $\sqrt{-16}$ Not Real

4) $\sqrt[3]{-27} = -3$

5) $\sqrt[3]{\frac{1}{27}} = \frac{1}{3}$

6) $\sqrt[4]{81} = 3$

7) $-\sqrt{4} = -(2) = -2$

8) $5\sqrt{36} = 5(6) = 30$

9) $\sqrt{12} = 2\sqrt{3}$

10) $5\sqrt{18} = 15\sqrt{2}$

11) $\sqrt{48} = 4\sqrt{3}$

12) $\sqrt{\frac{50}{x^2}} = \frac{5\sqrt{2}}{x}$

13) $\sqrt{24x^2y^2} = 2xy\sqrt{6}$

14) $\sqrt{20x^2y} = 2x\sqrt{5y}$

15) $5\sqrt{2} + 8\sqrt{2} = 13\sqrt{2}$

16) $6\sqrt{3} - \sqrt{3} + 7\sqrt{3} = 12\sqrt{3}$

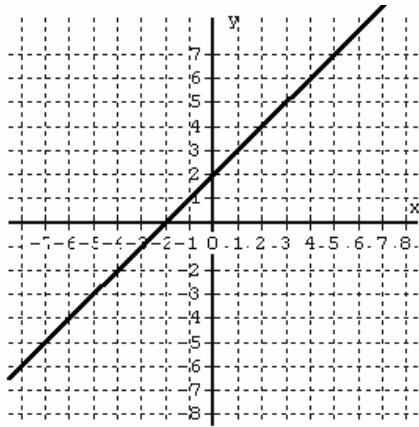
17) $6\sqrt{5} + 2\sqrt{7} + 3\sqrt{5} = 9\sqrt{5} + 2\sqrt{7}$

18) $\sqrt{12} + \sqrt{27} = 5\sqrt{3}$

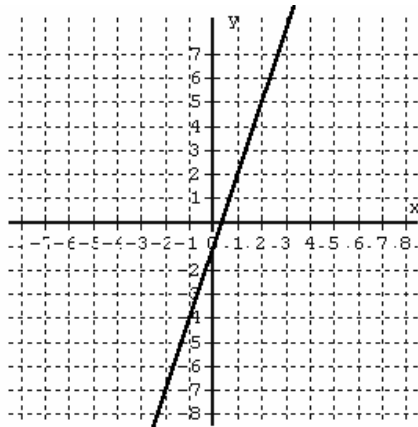
19) $\sqrt{2} + \sqrt{24} - \sqrt{18} = -2\sqrt{2} + 2\sqrt{6}$

20) $5\sqrt{27} - 3\sqrt{12} = 9\sqrt{3}$

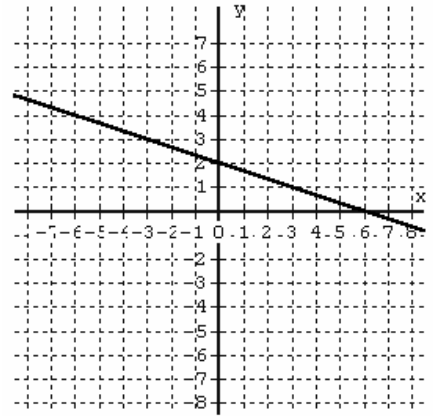
Graph the following lines



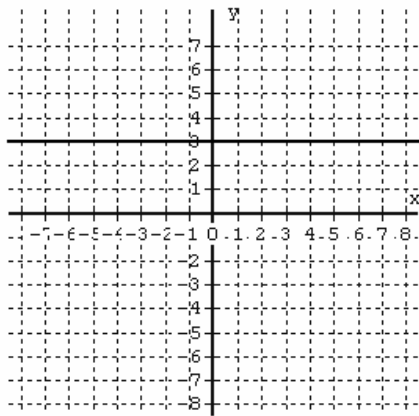
21) $y = x + 2$



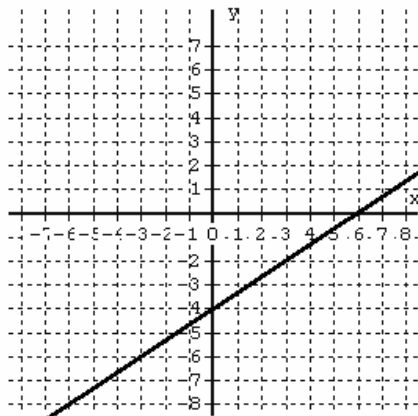
22) $y = 3x - 1$



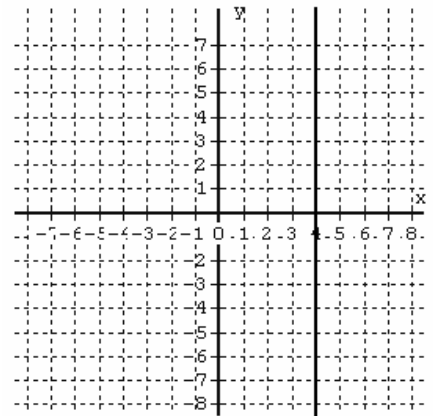
23) $x + 3y = 6$



24) $y = 3$



25) $2x - 3y = 12$



26) $x = 4$

27) Find the x-intercept of $y = 3x - 4$

$$y = 3x - 4$$

$$0 = 3x - 4$$

$$x = \frac{4}{3}$$

28) Find the y-intercept of $x - 2y = 5$

$$x - 2y = 5$$

$$0 - 2y = 5$$

$$y = \frac{5}{-2}$$