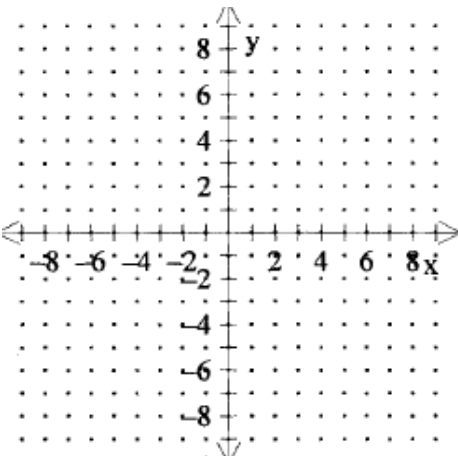
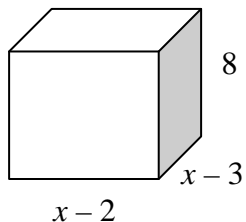


Show work neatly. Give all answers in simplest form (no decimals).

20. Solve for x : $\frac{5+x}{2} - 4 = \frac{6x+2}{5}$	21. Solve for x and graph the solution on a number line: $-12 \leq 5x - 2 \leq 33$
22. Solve for (x, y) : $2x - 8y = 24$ $3x + 5y = 2$	23. Simplify: $\frac{4x^3 y^{-5}}{3x^8 y^2} \cdot \frac{9x^2 y^6}{10x^{-7} y^3}$
24. Multiply and simplify: $(4x+9)^2$	25. Multiply and simplify: $(4x^2 - 3)(6x^2 + 9x - 8)$
26. Factor completely: $3x^2 - 16x + 5$	27. Factor completely: $50x^2 - 40x - 120$
28. Factor completely: $45x^3 - 500x$	29. Factor completely: $4x^3 + 16x^2 - 25x - 100$
30. Solve by factoring: $5x^3 - 17x^2 + 14x = 0$	31. Solve by factoring: $18x^2 + 12x + 2 = 0$

<p>32. Solve using square roots: $4(3x+1)^2 - 6 = 138$</p>	<p>33. Solve by quadratic formula: $12x^2 - 28x + 15 = 0$</p>
<p>34. Solve by completing the square: $2x^2 + 60x + 350 = 0$</p>	<p>35. Solve by completing the square: $3x^2 - 42x + 3 = 0$</p>
<p>36. Use any method you wish to write the equation of the line described, but <u>write your final answer in slope-intercept form.</u> The line contains the points $(-2, 6)$ and $(-4, 3)$</p>	<p>37. Graph: $2x + 6y > 18$</p> 
<p>38. <u>Write an equation and use it to solve the problem.</u> The volume of the box shown is 160 units^3. Find the value of x.</p> 	

Selected answers: 20. $\frac{-19}{7}$ 21. $-2 \leq x \leq 7$ 22. $(4, -2)$ 23. $\frac{6x^4}{5y^4}$ 25. $24x^4 + 36x^3 - 50x^2 - 27x + 24$

30. $0, \frac{7}{5}, 2$ 31. $\frac{-1}{3}$ 32. $\frac{-7}{3}, \frac{5}{3}$ 33. $\frac{3}{2}, \frac{5}{6}$ 34. $-15 \pm 5\sqrt{2}$ 35. $7 \pm 4\sqrt{3}$ 36. $y = \frac{3}{2}x + 9$ 38. 7