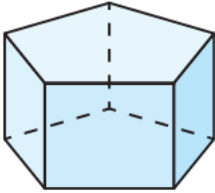
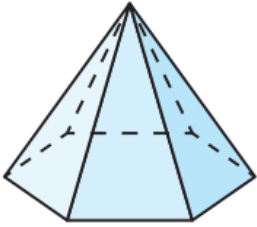
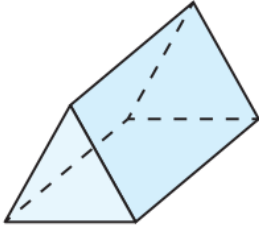

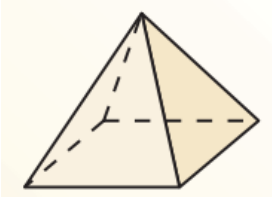
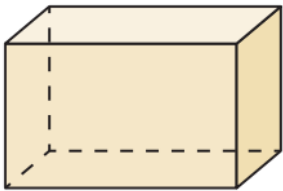
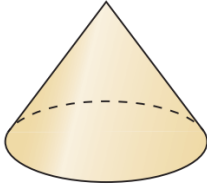

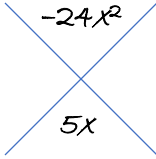


Review from Middle School: Match each solid with its name. Choices: **Cylinder, Cone, Sphere, Triangular Prism, Pentagonal Prism, Rectangular Prism, Square Pyramid, Hexagonal Pyramid**

<p>1)</p> 	<p>2)</p> 	<p>3)</p> 	<p>4)</p> 
<p>5)</p> 	<p>6)</p> 	<p>7)</p> 	<p>8)</p> 

Algebra Review:

Solve the following quadratic equations by factoring (for 9-11) and by square roots for 12.

<p>9) $2x^2 + 5x - 12 = 0$</p> <div style="text-align: center;">  </div>	<p>10) $6x^2 + x - 12 = -6x - 7$</p>
<p>11) $4x + x^2 = 12$</p>	<p>12) $5x^2 + 4 = 2x^2 + 79$</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Hint: Isolate x^2 then solve with square roots. Remember there are two answers.</p> </div>

Answers: $x = 2$ $x = \frac{-5}{3}$ $x = 8$ $x = \frac{1}{2}$ $x = \frac{2}{3}$ $x = 5$ $x = -4$ $x = \frac{3}{2}$ $x = -6$ $x = -5$

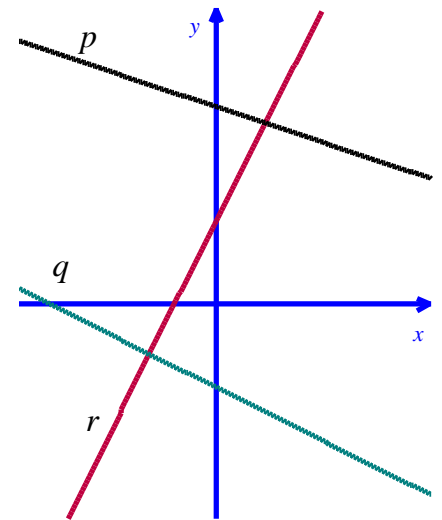
13) The equations of the lines shown at right are
 $-2x + y = 5$, $-x - 2y = 10$ and $x + 3y = 36$.

a) Change each line to $y = mx + b$ form and match each equation to a line at right.

$$-2x + y = 5$$

$$-x - 2y = 10$$

$$x + 3y = 36$$



Matches letter:

Matches letter:

Matches letter:

b) Which, if any, are parallel? How do you know?

c) Which, if any, are perpendicular? How do you know?

d) Solve the system by substitution or elimination and label the solution on the graph above.

$$\begin{cases} -2x + y = 5 \\ x + 3y = 36 \end{cases}$$

e) Solve the system by substitution or elimination and label the solution on the graph above.

$$\begin{cases} -2x + y = 5 \\ -x - 2y = 10 \end{cases}$$

14) Find the equation of the line that passes through $(15, -8)$ and $(12, -3)$. Use the slope formula and then the point-slope formula.

15) Find the equation of the line that is perpendicular to $y = \frac{-1}{4}x - 3$ that passes through $(-2, 1)$.

Jumbled Answers: $y = \frac{-1}{3}x + 12$ $y = 2x + 5$ $y = \frac{-1}{2}x - 5$ $y = \frac{-5}{3}x + 17$ $y = 4x + 9$ $(3, 11)$ $(-4, -3)$

None are parallel, Line r and line q are perpendicular because their slopes are opposite signs and reciprocal.