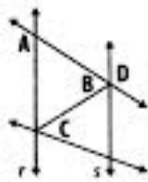
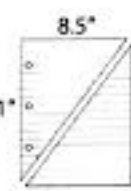
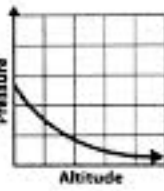
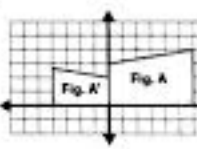
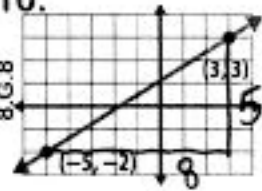


## Lesson #118

<p>1.</p> <p>8.EE.1</p> <p>1</p>	<p>2. <math>y = mx + b</math></p> <p><math>13 = \frac{6}{7} \cdot 7 + b</math> slope = <math>\frac{6}{7}</math></p> <p>8.F.4 <math>13 = 6 + b</math> y-intercept = 7</p> <p><math>-6 -6</math></p> <p><math>b = 7</math> <math>y = \frac{6}{7}x + 7</math></p>										
<p>3.</p> <p>8.G.5</p>  <p><math>\angle A \cong \angle D</math></p> <p>7.1.2</p>	<p>4.</p> <p>8.G.7</p>  <p><math>8.5^2 + 11^2 = c^2</math></p> <p><math>72.25 + 121 = c^2</math></p> <p><math>193.25 = c^2</math></p> <p>torn edge = 13.9 in.</p>										
<p>5.</p> <p>8.EE.7</p> <p><math>m = 36</math></p>	<p>6.</p> <p>8.F.5</p>  <p>A) decreases</p> <p>B) linear <b>nonlinear</b></p>										
<p>7.</p> <p>8.EE.8</p> <p><math>2x - y = 6</math></p> <p><math>5x + 4y = 1</math></p> <p><math>8x - 4y = 24</math></p> <p><math>5x = 25</math></p> <p><math>x = 5</math></p> <p><math>2 \cdot 5 - y = 6</math></p> <p><math>10 - y = 6</math></p> <p><math>-10 - y = -6</math></p> <p><math>-y = -4</math></p> <p><math>(5, 4)</math> <math>y = 4</math></p>	<p>8.</p> <p>8.G.4</p>  <p>similar; <math>\frac{2}{3}</math></p> <p>reflected</p> <p>horizontally,</p> <p>dilated by scale factor of two-thirds</p>										
<p>9.</p> <p>8.F.2</p> <p><math>y = 2x + 1</math></p> <table border="1" data-bbox="527 1365 779 1564"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>6</td> <td>16</td> </tr> <tr> <td>9</td> <td>24</td> </tr> <tr> <td>12</td> <td>32</td> </tr> </tbody> </table>	x	y	3	8	6	16	9	24	12	32	<p>10.</p> <p>8.G.8</p>  <p>The distance is 9.43 units.</p> <p><math>5^2 + 8^2 = c^2</math></p> <p><math>25 + 64 = c^2</math></p>
x	y										
3	8										
6	16										
9	24										
12	32										
<p>11.</p> <p>8.F.1</p> <p>A</p> <p>The x-values result in more than one y-value.</p>	<p>12. <math>5.55 - 1.51</math> <math>89 = c^2</math></p> <p><math>4.04 \times 10^2</math></p> <p>8.EE.4</p> <p>404 ft taller</p>										