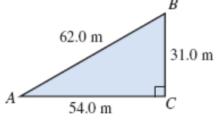
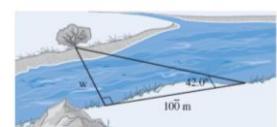
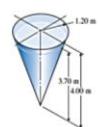


MTH 111 Chapter 13 Graded Homework

Answer Key

<p>13.1 #14</p> <p>14. $a = 12.0 \text{ km}, c = 61.0 \text{ km}$</p> <p>59.8 km</p>	<p>13.1 #22</p> <p>22. $a = 203,000 \text{ ft}, c = 521,000 \text{ ft}$</p> <p>480,000 ft</p>	<p>13.1 #30</p>  <p>Find Tan B</p> <p>1.7419</p>
<p>13.1 #36</p> <p>36. $\tan 14.6^\circ$</p> <p>0.2605</p>	<p>13.1 #54</p> <p>54. $\sin B = 0.3040$</p> <p>17.69°</p>	<p>13.1 #64</p> <p>64. $\cos B = 0.2597$</p> <p>74.94°</p>
<p>13.2 #14</p> <p>14. $a = 25.45 \text{ in.}, c = 41.25 \text{ in.}$</p> <p>$b = 32.46 \text{ in.}, A = 38.1^\circ, B = 51.9^\circ$</p>	<p>13.3 #10</p> <p>10. $c = 36.7 \text{ mi}, B = 68.3^\circ$</p> <p>$A = 21.7^\circ, a = 13.6 \text{ mi}, b = 34.1 \text{ mi}$</p>	<p>13.3 #18</p> <p>18. $a = 9820 \text{ ft}, B = 35.7^\circ$</p> <p>$A = 54.3^\circ, b = 7056 \text{ ft}, c = 12,092 \text{ ft}$</p>
<p>13.3 #24</p> <p>24. $a = 18.3 \text{ mi}, A = 71.2^\circ$</p> <p>$B = 18.8^\circ, b = 6.23 \text{ mi}, c = 19.3 \text{ mi}$</p>	<p>13.4 #10</p> <p>10. $a = 13.6 \text{ cm}, b = 13.6 \text{ cm}$</p> <p>$A = 45^\circ, B = 45^\circ, c = 19.2$</p>	<p>13.4 #16</p> <p>16. $a = 2436 \text{ ft}, c = 4195 \text{ ft}$</p> <p>$b = 3415 \text{ ft}, A = 35.5^\circ, B = 54.5^\circ$</p>
<p>13.4 #20</p> <p>20. $A = 14.60^\circ, b = 135.7 \text{ cm}$</p> <p>$B = 75.4^\circ, c = 191.9 \text{ cm}, a = 48.4 \text{ cm}$</p>	<p>13.5 #4</p> <p>4. </p> <p>Illustration 2</p> <p>9.78 m</p>	<p>13.5 #6</p> <p>6. </p> <p>Illustration 4</p> <p>90 m</p>
<p>13.5 #18</p> <p>18. </p> <p>Illustration 12</p> <p>Contains 4.77 m^3, to fill: 1.26 m^3</p>	<p>13.5 #34</p> <p>34. </p> <p>26.6°</p>	