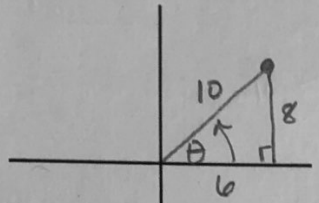
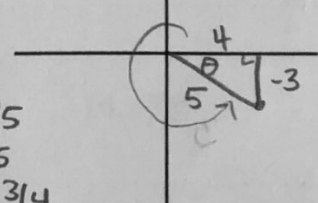
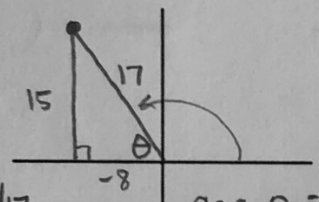
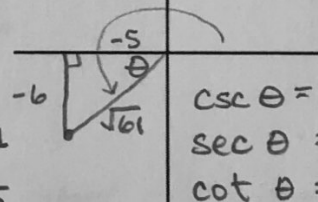
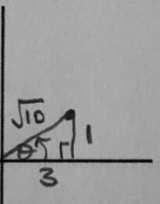
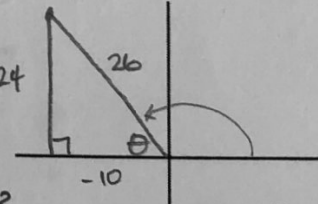
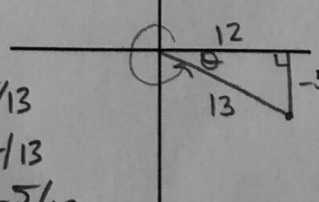
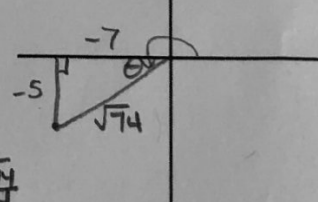
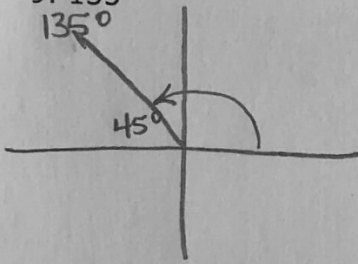


Use the given point on the terminal side of an angle  $\theta$  in standard position to evaluate all 6 trig functions of  $\theta$ . Answers should be reduced fractions. NO DECIMALS.

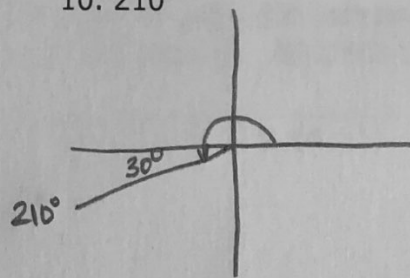
<p>1. (6, 8)</p>  <p> <math>\sin \theta = \frac{4}{5}</math>  <math>\cos \theta = \frac{3}{5}</math>  <math>\tan \theta = \frac{4}{3}</math> </p> <p> <math>\csc \theta = \frac{5}{4}</math>  <math>\sec \theta = \frac{5}{3}</math>  <math>\cot \theta = \frac{3}{4}</math> </p>	<p>2. (4, -3)</p>  <p> <math>\sin \theta = -\frac{3}{5}</math>  <math>\cos \theta = \frac{4}{5}</math>  <math>\tan \theta = -\frac{3}{4}</math> </p> <p> <math>\csc \theta = -\frac{5}{3}</math>  <math>\sec \theta = \frac{5}{4}</math>  <math>\cot \theta = -\frac{4}{3}</math> </p>
<p>3. (-8, 15)</p>  <p> <math>\sin \theta = \frac{15}{17}</math>  <math>\cos \theta = -\frac{8}{17}</math>  <math>\tan \theta = \frac{15}{-8}</math> </p> <p> <math>\csc \theta = \frac{17}{15}</math>  <math>\sec \theta = -\frac{17}{8}</math>  <math>\cot \theta = -\frac{8}{15}</math> </p>	<p>4. (-5, -6)</p>  <p> <math>\sin \theta = -\frac{6\sqrt{61}}{61}</math>  <math>\cos \theta = -\frac{5\sqrt{61}}{61}</math>  <math>\tan \theta = \frac{6}{5}</math> </p> <p> <math>\csc \theta = \frac{\sqrt{61}}{-6}</math>  <math>\sec \theta = \sqrt{61}/-5</math>  <math>\cot \theta = \frac{5}{6}</math> </p>
<p>5. (3, 1)</p>  <p> <math>\sin \theta = \frac{\sqrt{10}}{10}</math>  <math>\cos \theta = \frac{3\sqrt{10}}{10}</math>  <math>\tan \theta = \frac{1}{3}</math> </p> <p> <math>\csc \theta = \frac{\sqrt{10}}{1}</math>  <math>\sec \theta = \frac{\sqrt{10}}{3}</math>  <math>\cot \theta = \frac{3}{1}</math> </p>	<p>6. (-10, 24)</p>  <p> <math>\sin \theta = \frac{12}{13}</math>  <math>\cos \theta = -\frac{5}{13}</math>  <math>\tan \theta = \frac{12}{5}</math> </p> <p> <math>\csc \theta = \frac{13}{12}</math>  <math>\sec \theta = -\frac{13}{5}</math>  <math>\cot \theta = \frac{5}{12}</math> </p>
<p>7. (12, -5)</p>  <p> <math>\sin \theta = -\frac{5}{13}</math>  <math>\cos \theta = \frac{12}{13}</math>  <math>\tan \theta = -\frac{5}{12}</math> </p> <p> <math>\csc \theta = -\frac{13}{5}</math>  <math>\sec \theta = \frac{13}{12}</math>  <math>\cot \theta = -\frac{12}{5}</math> </p>	<p>8. (-7, -5)</p>  <p> <math>\sin \theta = -\frac{5\sqrt{74}}{74}</math>  <math>\cos \theta = -\frac{7\sqrt{74}}{74}</math>  <math>\tan \theta = \frac{5}{7}</math> </p> <p> <math>\csc \theta = \frac{\sqrt{74}}{-5}</math>  <math>\sec \theta = \sqrt{74}/-7</math>  <math>\cot \theta = \frac{7}{5}</math> </p>

Sketch each angle and state its reference angle.

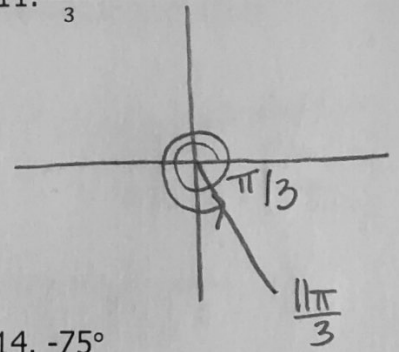
9.  $135^\circ$



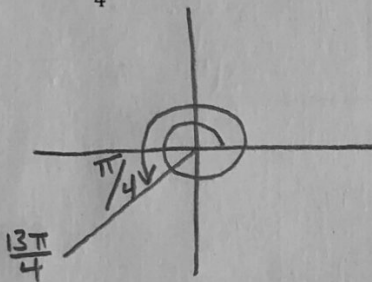
10.  $210^\circ$



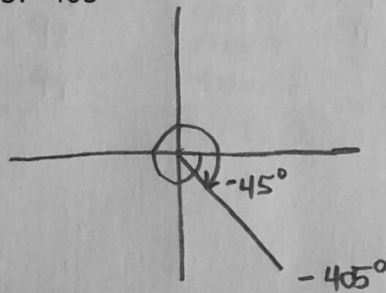
11.  $\frac{11\pi}{3}$



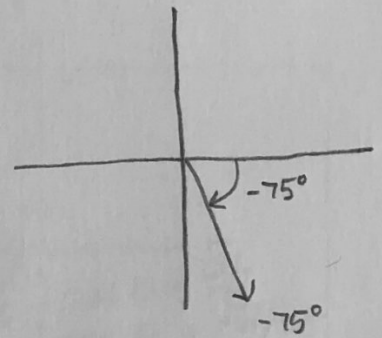
12.  $\frac{13\pi}{4}$



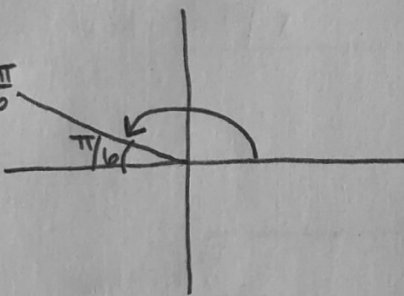
13.  $-405^\circ$



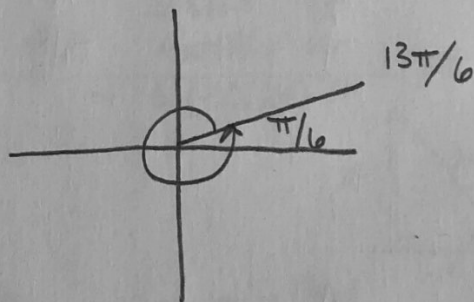
14.  $-75^\circ$



15.  $\frac{5\pi}{6}$



16.  $\frac{13\pi}{6}$



$\frac{13\pi}{6}$

$\frac{\pi}{6}$