

Directions: Begin in cell #1. To advance in the circuit, find your answer and write 2 in the blank. Continue in this manner until you complete the circuit.

<p>1. Answer: $\frac{\sqrt{6}}{2}$ $\sin 150^\circ$ $\frac{1}{2}$</p>	<p>Answer: $-\frac{\sqrt{3}}{2}$ # <u>9</u> $\cot \frac{3\pi}{2}$ 0</p>
<p>Answer: $-\frac{1}{2}$ # <u>7</u> $\sin \frac{\pi}{4}$ $\frac{\sqrt{2}}{2}$</p>	<p>Answer: $\frac{\sqrt{3}}{3}$ # <u>16</u> $\sec \frac{7\pi}{4}$ $\frac{2}{\sqrt{2}} = \sqrt{2}$</p>
<p>Answer: $-\frac{\sqrt{3}}{3}$ # <u>12</u> $\sin \frac{3\pi}{2}$ -1</p>	<p>Answer: $\sqrt{3}$ # <u>4</u> $\csc \frac{\pi}{2}$ 1</p>
<p>Answer: $\frac{2\sqrt{3}}{3}$ # <u>18</u> $\tan 225^\circ \sec 225^\circ$ $1 \cdot \frac{-2}{\sqrt{2}} = -\sqrt{2}$</p>	<p>Answer: $-\frac{2\sqrt{3}}{3}$ # <u>14</u> $\sec \frac{5\pi}{3}$ 2</p>
<p>Answer: 0 # <u>10</u> $\cos 330^\circ$ $\frac{\sqrt{3}}{2}$</p>	<p>Answer: $-3\sqrt{3}$ # <u>20</u> $\cos 30^\circ \sin 135^\circ - \sin 45^\circ \cos 210^\circ$ $\frac{\sqrt{3}}{2} \cdot \frac{\sqrt{2}}{2} - \frac{\sqrt{2}}{2} \cdot \frac{-\sqrt{3}}{2} = \frac{\sqrt{6} + \sqrt{6}}{4} = \frac{\sqrt{6}}{2}$</p>
<p>Answer: $\frac{1}{2}$ # <u>2</u> $\cot 180^\circ$ undefined</p>	<p>Answer: $\frac{\sqrt{2}}{2}$ # <u>8</u> $\sin\left(-\frac{2\pi}{3}\right)$ $-\frac{\sqrt{3}}{2}$</p>
<p>Answer: $-\frac{\sqrt{2}}{2}$ # <u>6</u> $\cos 240^\circ$ $-\frac{1}{2}$</p>	<p>Answer: -1 # <u>13</u> $\csc 240^\circ$ $\frac{-2}{\sqrt{3}} = -\frac{2\sqrt{3}}{3}$</p>
<p>Answer: +2 # <u>15</u> $\tan \frac{7\pi}{6}$ $\frac{\sqrt{3}}{3}$</p>	<p>Answer: $\frac{\sqrt{3}}{2}$ # <u>11</u> $\tan \frac{5\pi}{6}$ $\frac{-\frac{1}{2}}{-\frac{\sqrt{3}}{2}} = -\frac{\sqrt{3}}{3}$</p>
<p>Answer: $\sqrt{2}$ # <u>17</u> $\sec\left(-\frac{\pi}{6}\right)$ $\frac{2\sqrt{3}}{3}$</p>	<p>Answer: 1 # <u>5</u> $\cos 225^\circ$ $-\frac{\sqrt{2}}{2}$</p>
<p>Answer: undefined # <u>3</u> $\cot \frac{\pi}{6}$ $\frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \frac{\sqrt{3} \cdot 2}{2 \cdot 1} = \sqrt{3}$</p>	<p>Answer: $-\sqrt{2}$ # <u>19</u> $12 \sin 150^\circ \cos 150^\circ$ $12 \cdot \frac{1}{2} \cdot \frac{-\sqrt{3}}{2} = -3\sqrt{3}$</p>