Name

1

$$\pi < \beta < \frac{3\pi}{2}$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\beta) = 10$$
$$\sec(\beta) = ?$$

A	B
$\sec(\beta) = -8\sqrt{2}$	$\sec(\beta) = -\sqrt{101}$

2

$$\frac{3\pi}{2} < \alpha < 2\pi$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\alpha) = -5$$
$$\sec(\alpha) = ?$$

A	B
$\sec(\alpha) = -\sqrt{26}$	$\sec(\alpha) = \sqrt{26}$

3

$$\pi < \alpha < \frac{3\pi}{2}$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\alpha) = 14$$
$$\sec(\alpha) = ?$$

A	B
$\sec(\alpha) = -\sqrt{197}$	$\sec(\alpha) = -\sqrt{215}$

4

$$\pi < \beta < \frac{3\pi}{2}$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\beta) = 7$$
$$\sec(\beta) = ?$$

A	B
$\sec(\beta) = -5\sqrt{2}$	$\sec(\beta) = 5\sqrt{2}$

5

$$\frac{3\pi}{2} < \theta < 2\pi$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\theta) = -14$$
$$\sec(\theta) = ?$$

A	B
$\sec(\theta) = \sqrt{203}$	$\sec(\theta) = \sqrt{197}$

6

$$\frac{3\pi}{2} < \alpha < 2\pi$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\alpha) = -12$$
$$\sec(\alpha) = ?$$

A	B
$\sec(\alpha) = \sqrt{145}$	$\sec(\alpha) = 3\sqrt{17}$

7

$$\frac{\pi}{2} < \beta < \pi$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\beta) = -2$$
$$\sec(\beta) = ?$$

A	B
$\sec(\beta) = -3$	$\sec(\beta) = -\sqrt{5}$

8

$$\pi < \theta < \frac{3\pi}{2}$$

Solve for secant from tangent using trig identities

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Solve:

$$\tan(\theta) = 9$$
$$\sec(\theta) = ?$$

A	B
$\sec(\theta) = -\frac{\sqrt{82}}{2}$	$\sec(\theta) = -\sqrt{82}$