Math worksheet on *'Trigonometry - Side Lengths from Variables and Identity (Level 1)'*. Part of a broader unit on *'Trigonometry Foundations'*

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**1** Select the definition of this side in terms of Tangent

$$What\ is\ adj?$$
$$tan = \frac{opp}{adj}$$

| | |
|---|---|
| **a** $\frac{tan}{opp}$ | **b** $tan \times hyp$ |
| **c** $\frac{hyp}{tan}$ | **d** $\frac{opp}{tan}$ |
| **e** $tan \times opp$ | **f** $\frac{tan}{adj}$ |

**2** Select the definition of this side in terms of Sine

$$What\ is\ opp?$$
$$sin = \frac{opp}{hyp}$$

| | |
|---|---|
| **a** $\frac{sin}{adj}$ | **b** $\frac{adj}{sin}$ |
| **c** $\frac{sin}{hyp}$ | **d** $\frac{hyp}{sin}$ |
| **e** $sin \times adj$ | **f** $sin \times hyp$ |

**3** Select the definition of this side in terms of Sine

$$What\ is\ hyp?$$
$$sin = \frac{opp}{hyp}$$

| | |
|---|---|
| **a** $\frac{sin}{adj}$ | **b** $\frac{sin}{hyp}$ |
| **c** $\frac{sin}{opp}$ | **d** $\frac{opp}{sin}$ |
| **e** $sin \times opp$ | **f** $sin \times adj$ |

**4** Select the definition of this side in terms of Cosine

$$What\ is\ adj?$$
$$cos = \frac{adj}{hyp}$$

| | |
|---|---|
| **a** $\frac{hyp}{cos}$ | **b** $\frac{cos}{opp}$ |
| **c** $cos \times opp$ | **d** $cos \times hyp$ |
| **e** $\frac{opp}{cos}$ | **f** $\frac{cos}{adj}$ |

**5** Select the definition of this side in terms of Tangent

$$What\ is\ opp?$$
$$tan = \frac{opp}{adj}$$

| | |
|---|---|
| **a** $tan \times hyp$ | **b** $\frac{hyp}{tan}$ |
| **c** $tan \times opp$ | **d** $tan \times adj$ |
| **e** $\frac{adj}{tan}$ | **f** $\frac{tan}{adj}$ |

**6** Select the definition of this side in terms of Cosine

$$What\ is\ hyp?$$
$$cos = \frac{adj}{hyp}$$

| | |
|---|---|
| **a** $cos \times adj$ | **b** $\frac{opp}{cos}$ |
| **c** $\frac{cos}{hyp}$ | **d** $\frac{cos}{opp}$ |
| **e** $cos \times opp$ | **f** $\frac{adj}{cos}$ |