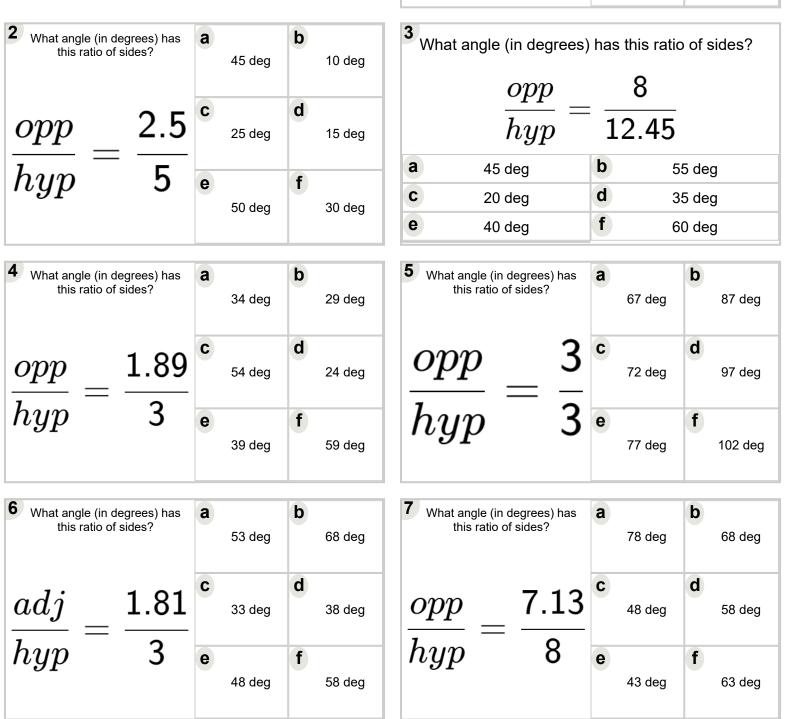# mobius

Math worksheet on *'Trigonometry - Calculating Angles from Ratio Fractions and Trig Identities (Level 1)'*. Part of a broader unit on *'Trigonometry - Solving Triangles'*

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1 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{adj} = \frac{8.28}{8}$$

a 36 deg	**b** 61 deg
c 31 deg	**d** 46 deg
e 66 deg	**f** 41 deg

2 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{hyp} = \frac{2.5}{5}$$

a 45 deg	**b** 10 deg
c 25 deg	**d** 15 deg
e 50 deg	**f** 30 deg

3 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{hyp} = \frac{8}{12.45}$$

a 45 deg	**b** 55 deg
c 20 deg	**d** 35 deg
e 40 deg	**f** 60 deg

4 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{hyp} = \frac{1.89}{3}$$

a 34 deg	**b** 29 deg
c 54 deg	**d** 24 deg
e 39 deg	**f** 59 deg

5 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{hyp} = \frac{3}{3}$$

a 67 deg	**b** 87 deg
c 72 deg	**d** 97 deg
e 77 deg	**f** 102 deg

6 What angle (in degrees) has this ratio of sides?

$$\frac{adj}{hyp} = \frac{1.81}{3}$$

a 53 deg	**b** 68 deg
c 33 deg	**d** 38 deg
e 48 deg	**f** 58 deg

7 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{hyp} = \frac{7.13}{8}$$

a 78 deg	**b** 68 deg
c 48 deg	**d** 58 deg
e 43 deg	**f** 63 deg