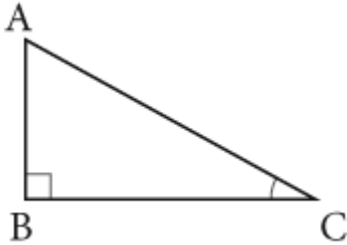


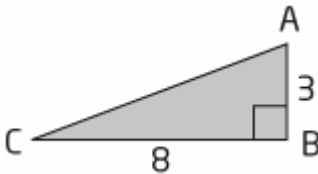
Hw Elevation Depression (Mixed Review)

MULTIPLE CHOICE

- Evaluate $\cos 11^\circ$, to four decimal places.
 - 0.9816
 - 0.1944
 - 0.1908
 - 0.0044
- In $\triangle ABC$, $AC = 8$ cm and $BC = 11$ cm. Determine the tangent ratio of $\angle A$, to the nearest thousandth.



- 0.520
 - 0.728
 - 1.375
 - 1.536
- A school soccer field measures 45 m by 65 m. To get home more quickly, Urooj decides to walk along the diagonal of the field. What is the angle of Urooj's path, with respect to the 45-m side, to the nearest degree?
 - 55°
 - 34°
 - 2°
 - 1°
 - Determine the measure of $\angle C$, to the nearest degree.



- 19°
 - 20°
 - 21°
 - 22°
- Determine the correct formula for the sine ratio of $\angle A$.
 - $\sin A = \frac{\text{Length of side opposite } \angle A}{\text{Length of side adjacent to } \angle A}$
 - $\sin A = \frac{\text{Length of hypotenuse}}{\text{Length of side adjacent to } \angle A}$
 - $\sin A = \frac{\text{Length of side opposite } \angle A}{\text{Length of hypotenuse}}$
 - $\sin A = \frac{\text{Length of side adjacent to } \angle A}{\text{Length of hypotenuse}}$
 - An Airbus A320 aircraft is cruising at an altitude of 10 000 m. The aircraft is flying in a straight line away from Monica, who is standing on the ground. Monica observes that the angle of elevation of the aircraft changes from 70° to 33° in one minute. What is the cruising speed of the aircraft, to the nearest kilometre per hour?
 - 463 km/h
 - 485 km/h
 - 665 km/h
 - 705 km/h
 - In the triangle, $BC = 12$ cm and $\tan \angle B = 0.58\bar{3}$. What is the length of the hypotenuse, to the nearest tenth of a centimetre?

