Mathematics Assessment Program College and Career Readiness Mathematics

Short Tasks: Expressing Geometric Properties with Equations 1

- 1. Find the equation of a circle with centre (2, 1) radius 5.
- 2. Find the volume of a cone with height 7cm and base diameter 6cm.
- 3. Find the equation of a line passing through the origin and parallel to the line 2x y = 5.
- 4. If the equation of a line p in the coordinate plane is y = 3x + 2, what is the equation of line q which is a reflection of line p in the x-axis?
- 5. If the slope of a line is $\frac{1}{2}$ and the *y*-intercept is 3, what is the *x*-intercept of the same line?