# 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 7 cm and base diameter 6 cm .
3. Find the equation of a line passing through the origin and parallel to the line $2 x-y=5$.
4. If the equation of a line p in the coordinate plane is $y=3 x+2$, 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?
