

- 1) $\angle 1$ and $\angle 2$ are vertical angles. $m\angle 1 = (x^2 - 3)^\circ$ and $m\angle 2 = 22^\circ$. Find x .

- 2) $\angle 1$ and $\angle 2$ are complementary angles. $m\angle 1 = (x^2 + 60)^\circ$ and $m\angle 2 = (10x + 55)^\circ$. Find x , $m\angle 1$ and $m\angle 2$.

- 3) $\angle 1$ and $\angle 2$ are vertical angles. $m\angle 1 = (x^2 + 5x)^\circ$ and $m\angle 2 = (x + 21)^\circ$. Find x , $m\angle 1$ and $m\angle 2$.

- 4) $\angle 1$ and $\angle 2$ form a linear pair. $m\angle 1 = (3x^2 + 100)^\circ$ and $m\angle 2 = (x^2 + 44)^\circ$. Find x , $m\angle 1$ and $m\angle 2$.

- 5) $\angle 1$ and $\angle 2$ are supplementary angles. $m\angle 1 = (2x^2 + 200)^\circ$ and $m\angle 2 = (-10x - 8)^\circ$. Find x , $m\angle 1$ and $m\angle 2$.