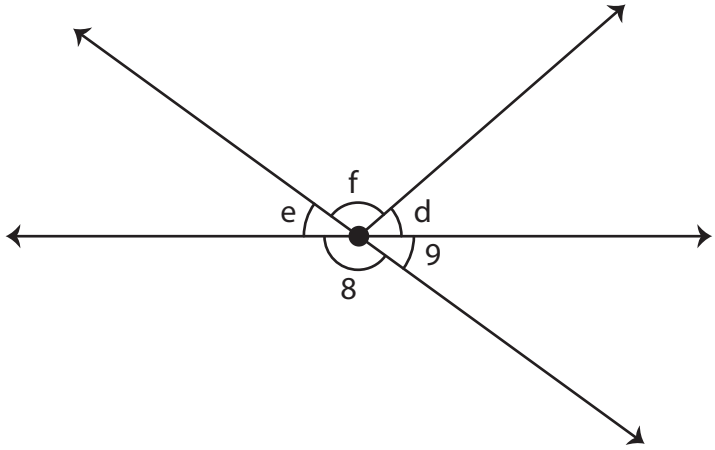
# Pair of Angles

Name _____

Score _____

PA:42




1) $\angle e$ and $\angle 8$ are

a) linear angles b) adjacent angles c) vertical angles

2) $\angle e$, $\angle f$ and $\angle d$ all lie on a straight line. If $m\angle d$ is $41^0$ and $m\angle e$ is $36^0$, find the $m\angle f$.

_____

3) Circle the pair of vertically opposite angles.

$m\angle e$ , $m\angle f$ $m\angle e$ , $m\angle 9$ $m\angle 9$ , $m\angle 8$

4) $\angle 8$ and $\angle 9$ are linear angles. If $m\angle 8$ is $144^0$ and $m\angle 9 = (4x)^0$, find x.

_____

5) Write any three pairs of adjacent angles.

_____

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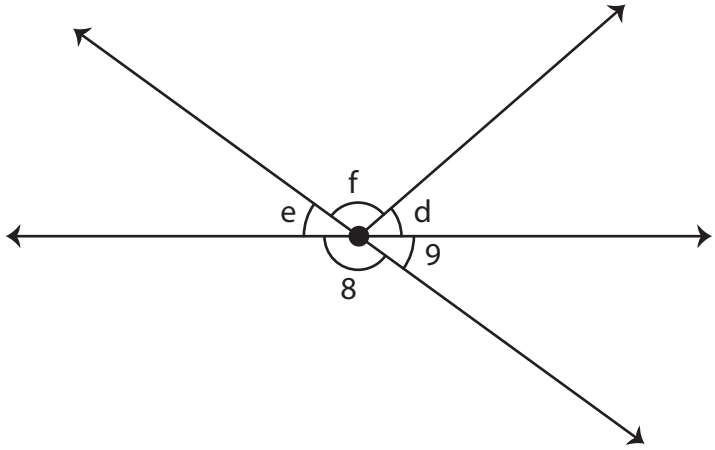
## Answer key




1) ∠e and ∠8 are

a) linear angles  b) adjacent angles  c) vertical angles

2) ∠e, ∠f and ∠d all lie on a straight line. If m∠d is $41^0$ and m∠e is $36^0$, find the m∠f.

**m∠f = $103^0$**

3) Circle the pair of vertically opposite angles.

m∠e , m∠f  m∠e , m∠9  m∠9 , m∠8

4) ∠8 and ∠9 are linear angles. If m∠8 is $144^0$ and m∠9 = $(4x)^0$, find x.

**x = 9**

5) Write any three pairs of adjacent angles.

**m∠e and m∠f ; m∠f and m∠d ; m∠d and m∠9**