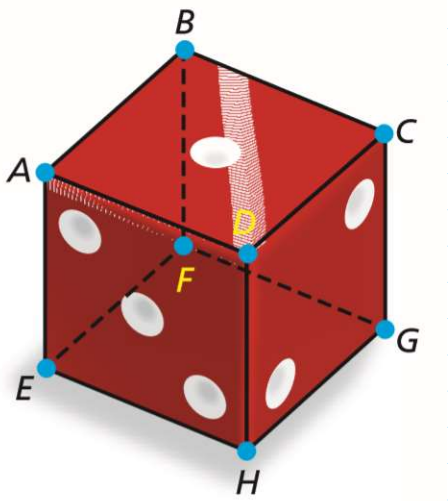
Quiz Review!
Sections 3.1 - 3.3
Calculator allowed

Assuming every segment of the cube is part of a line, which line(s) or plane(s) contain point F and appear to fit the descriptions below? (all intersections are perpendicular.)

1. Line(s) parallel to $\overleftrightarrow{AD}$ FG
2. Line(s) perpendicular to $\overleftrightarrow{BC}$ BF
3. Line(s) skew to $\overleftrightarrow{AD}$ BF EF
4. Plane(s) parallel to plane CGH

ABE



4

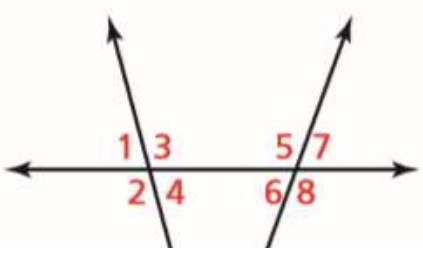
Identify all pairs of angles of the given type.

Consecutive Interior

∠3, ∠5 / ∠4, ∠6

Alternate Exterior

∠1, ∠8 / ∠2, ∠7



Alternate Exterior

$\angle 1, \angle 8 / \angle 2, \angle 7$

Alternate Interior

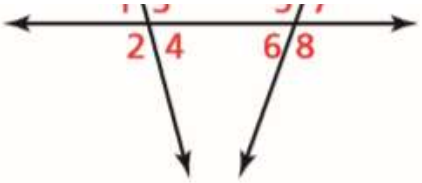
$\angle 3, \angle 6 / \angle 4, \angle 5$

Corresponding

$\angle 1, \angle 5 / \angle 3, \angle 7 / \angle 2, \angle 6 / \angle 4, \angle 8$

Vertical

$\angle 1, \angle 4 / \angle 2, \angle 3 / \angle 5, \angle 8 / \angle 6, \angle 7$

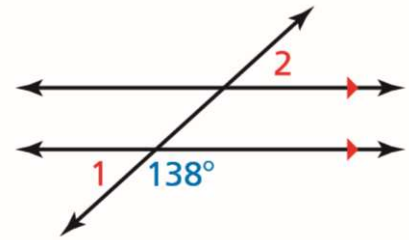


5

Find the measure of angle 1 and angle 2. Justify each angle measure with a theorem or postulate.

$m\angle 1 = 42°$ L.P.

$m\angle 2 = 42°$ Alt. Ext. $\angle$s



$m\angle 1 + 138° = 180°$

$-138 \quad -138$

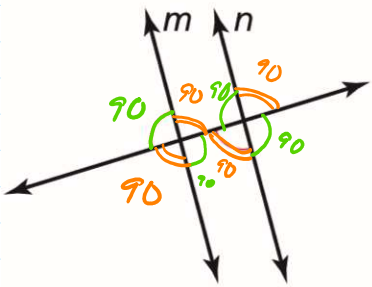
42

$m\angle 1 = 42°$

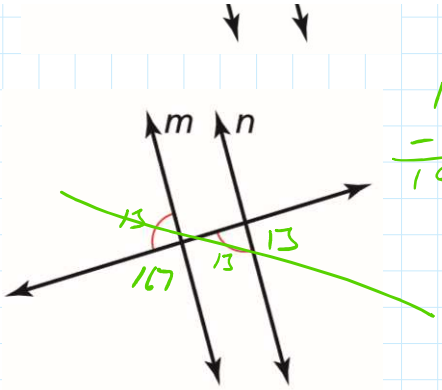
2

Decide whether there is enough information to prove that m is parallel to n. If so, state the theorem you would use.

Not enough info.



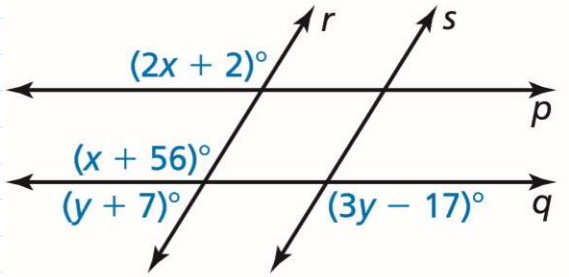
180

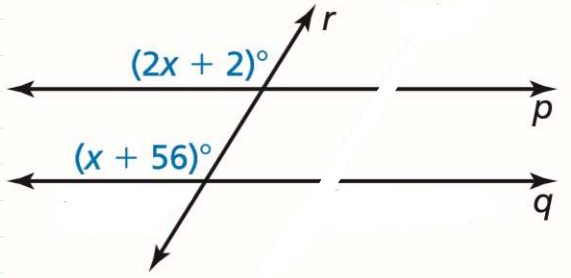


180
−13
167

2

Assuming that r is parallel to s and p is parallel to q, find x and y.





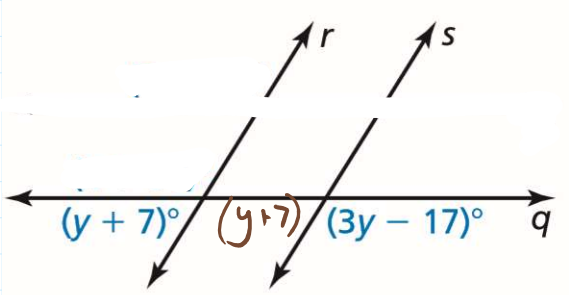
$2x+2 = x+56$

$-x \quad -4$

$x+2 = 56$

$-2 \quad -2$

$x = 54$



$y+7+3y-17 = 180$

$4y - 10 = 180$

$+10 \quad +10$

$\frac{4y}{4} = \frac{190}{4}$

$y = \frac{95}{2}$

2

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15 total questions

Good Luck!!