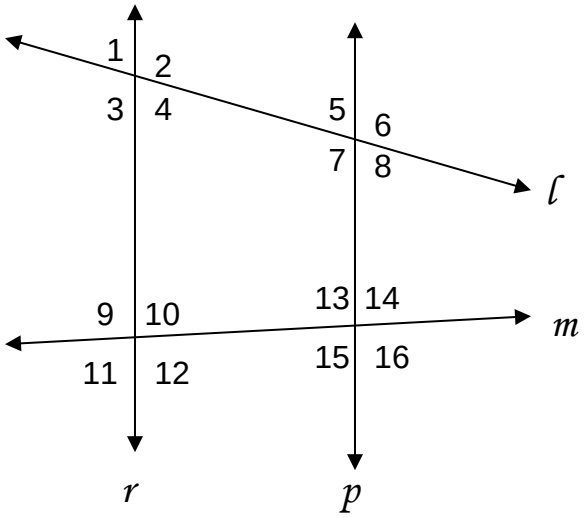
Name _____ Date _____ Pd ____

3.2 Parallel Lines and Transversals WS

State the transversal that forms each pair of angles. Then identify the special name for the angle pair.



1. ∠1 and ∠12

2. ∠2 and ∠10

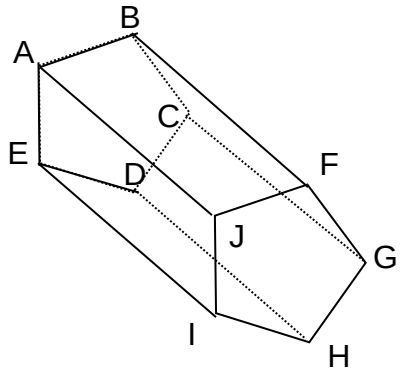
3. ∠4 and ∠9

4. ∠6 and ∠3

5. ∠14 and ∠10

6. ∠7 and ∠13

The three-dimensional figure shown at the right is called a right pentagonal prism.



7. Identify all segments joining points marked in plane JIH that appear to be skew to $\overline{EA}$.

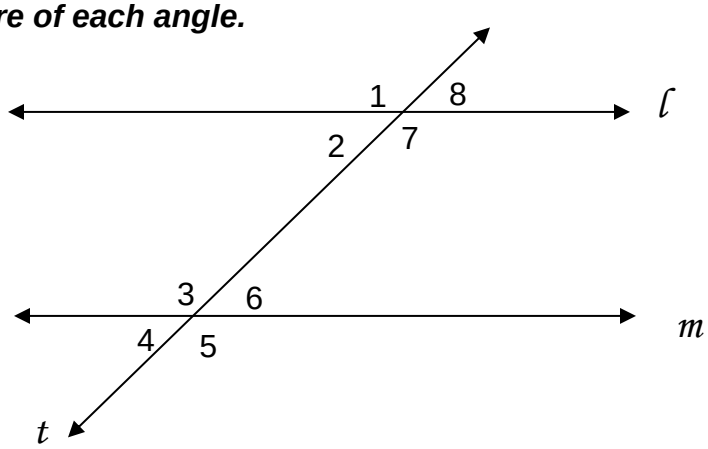
8. Which segments seem parallel to $\overline{BF}$?

9. Which segments seem parallel to $\overline{GH}$?

10. Identify all planes that appear parallel to plane FGH.

3.2 Angles and Parallel Lines WS

In the figure, $\ell \parallel m$. Find the measure of each angle.



1. If m∠1 = 100°, find m∠3.

2. If m∠7 = 95°, find m∠6.

3. If m∠1 = 120°, find m∠5.

4. If m∠4 = 20°, find m∠7.

5. If m∠3 = 140°, find m∠8.

6. If m∠4 = 30°, find m∠1.

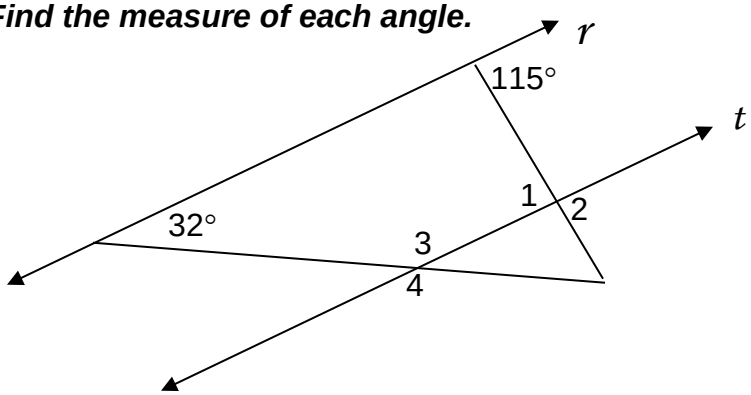
7. If m∠4 = 40°, find m∠2.

8. If m∠7 = 125°, find m∠4.

9. If $\ell \perp t$, find m∠3.

10. If m∠1 + m∠3 = 230°, find m∠6.

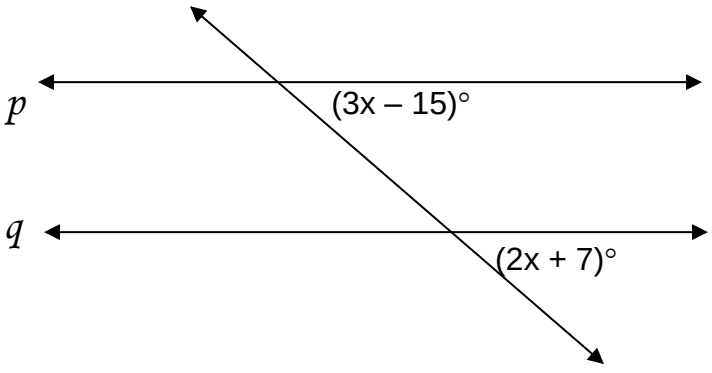
In the figure, $r \parallel t$. Find the measure of each angle.



11. m∠1

12. m∠2

13. m∠3

14. m∠4

15. In the figure, $p \parallel q$. Find the value of x.