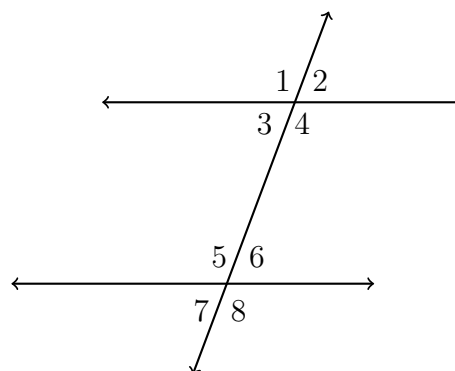
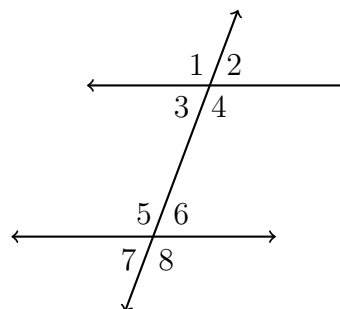


Name:

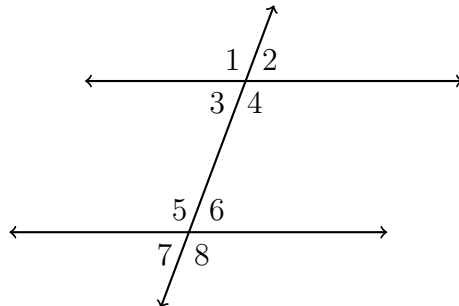
BECA / Dr. Huson / Geometry 03 Parallels and transversals

3.3 Parallel lines and transversals

1. Do Now: Identify each angle

(a) Opposite $\angle 4$ (b) Corresponding to $\angle 3$ (c) Alternate exterior to $\angle 8$ (d) Same side interior to $\angle 5$ (e) Alternate interior to $\angle 4$ 2. Spicy Do Now: The volume of a sphere is $(121\frac{1}{2})\pi$. Find its radius.3. Given two parallel lines and a transversal, as shown, with $m\angle 1 = 125^\circ$. Write down the value of each angle measure.(a) $m\angle 5 =$ (b) $m\angle 6 =$ (c) $m\angle 4 = 5y$. Find y .

4. Given two parallel lines and a transversal, with $m\angle 1 = 3x - 10$ and $m\angle 8 = 2x + 32$. Write an equation, then solve for x .



5. Solve for x

(a) $\frac{1}{3}x - 7 = -4$

(c) $\frac{1}{2}(x - 7) = 12$

(b) $\frac{3}{4}x = 9$

(d) $\frac{2}{3}(x + 7) = x - 4$

6. The perimeter of a rectangle is 54 centimeters. If its length is 6 cm., what is its width?