Geometry Week 11 Monday Warm-up



Geometry week 11 Tuesday Warm-up

1. An artist is building a mosaic. The mosaic consists of the repeating pattern shown at the right. What must be true of *a* and *b* to ensure that the sides of the mosaic are parallel?



2. Complete this proof. **Given:** $d \parallel e, e \parallel f$ **Prove:** $d \parallel f$ **Statements** 1. $d \parallel e$ 2. $\angle 1$ is supplementary to $\angle 2$ 3. 4. $e \parallel f$

- 5. $m\angle 2 = m\angle 3$
- 6.
- 7. $\angle 1$ is supplementary to $\angle 3$
- 8. d || f.

Reasons

1. Given

3. Defn of supplementary angles

4.

2.

5.

6. substitution property

7. 8.

Conclusion:

Geometry Week 11 Thursday Warm-up

- 1. Write the equation of the line that passes through the point (3, 7) and is perpendicular to the line $y = \frac{2}{5}x - 1.$
- 2. Write the equation of the line that passes through the point (3, 0) and is parallel to the line 2x + y = 3.
- 3. Write the equation of the perpendicular bisector of the line that passes through (8, -2) and (6, 4).