3. 23, 17, 11, 5, ...

4. 9, 45, 270, 1890, ...

Write an explicit formula for each sequence.

5. $-11, -3, 5, 13, \dots$

6. 250, 360, 490, 640, ...

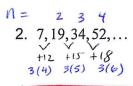
7. 1.25, 5, 20, 80, ...

- 8. In the xy -plane, which of the following is true of a circle with equation $(x + 0.5)^2 + (y 0.5)^2 = 0.5$ and line with equation x + y = 0.
- A) The line never intersects the circle.
- B) The line is tangent to the circle.
- C) The line cuts the circle into two arcs of unequal length.
- D) The line cuts the circle into two arcs of equal length.

Bellwork Alg 2B 1-3 hrs Wednesday, January 10, 2018 Write a recursive formula for each sequence.

Answers

1. 16,-56,196,-686,...



Heither Adding next multiple of

$$a_1 = 16$$
 $a_n = (a_{n-1})(-3.5)$

$$9_1 = 7$$
 $9_n = 9_{n-1} + 3(n+2)$

3. 23,17,11,5,... Arithmetic d= -6

$$n = 2 3 4$$

4. 9,45,270,1890,...

$$a_1 = 23$$
 $a_1 = 9_{n-1} - 6$

$$a_1 = 9$$
 $a_n = (a_{n-1})(n+3)$

Write an explicit formula for each sequence.

- 5. -11,-3,5,13,... Arithmetic d=8
- Arithmetic d=8 $a_{n}=-11+8(n-1)$

7. 1.25,5,20,80,...
Geometric
$$r=4$$

$$Q_{1} = 1.25(4)^{n-1}$$

- an= (n+4)2(10)
- 8. In the xy -plane, which of the following is true of a circle with equation $(x + 0.5)^2 + (y 0.5)^2 = 0.5$ and line with equation x + y = 0.
- A) The line never intersects the circle.
- B) The line is tangent to the circle.
- C) The line cuts the circle into two arcs of unequal length.
- D) The line cuts the circle into two arcs of equal length.