Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Common Core Geometry Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Cofunctions and Special Triangles**

1. If , the number of degrees in the measure of angle  is

|  |  |
| --- | --- |
| 1) | 30 |
| 2) | 60 |
| 3) | 90 |
| 4) | 120 |

2. If , a measure of angle *x* is

|  |  |
| --- | --- |
| 1) | 15º |
| 2) | 30º |
| 3) | 45º |
| 4) | 60º |

3. If , then the value of *x* is

|  |  |
| --- | --- |
| 1) |  |
| 2) | 17 |
| 3) | 35 |
| 4) | 71 |

4. If , then the value of *x* is

|  |  |
| --- | --- |
| 1) |  |
| 2) | 26 |
| 3) | 29 |
| 4) | 64 |

5. If *x* is a positive acute angle and , find the value of *x*

6. If *,* find the number of degrees in the measure of acute angle *x*.

7. If 3*x* is the measure of a positive acute angle and , find the value of *x*.

8. Draw and label both special triangles

9. Express the product of cos 30° and sin 45° in simplest radical form.

10. The value of  is

|  |  |
| --- | --- |
| 1) |  |
| 2) |  |
| 3) |  |
| 4) |  |

11. Express $\tan(60)$ in simplest radical form

12. Express $\tan(30)$ in simplest radical form

13. Express the product of cos 45 and sin 30 in simplest radical form.