**Trigonometry/Precalculus Name**

**Special Right Triangle/Rationalizing Denominators Date**

**Day \_\_\_\_\_\_\_\_\_ Block**

Use the idea of special right triangles below to find the missing sides of each triangle.



|  |  |
| --- | --- |
| 1)Screen Clipping | 2) Related image |
| 3) A picture containing object  Description automatically generated | 4)A picture containing object  Description automatically generated |
| 5)Image result for special right triangles worksheet with hypotenuse 1 | 6) Related image |
| A picture containing object  Description automatically generated | 7) Solve for a, b, c and d.a =b =c =d = |

Simply each of the following expressions by rationalizing each denominator.

|  |  |
| --- | --- |
| 8) $\frac{1}{√2}$ | 9) - $\frac{2}{√3}$ |
| 10) $\frac{2}{√2}$ | 11) $-\frac{3}{√3}$ |
| 12) A screenshot of a social media post  Description automatically generated | 13) $\frac{4+2√3}{5√3}$ |
| 14) A screenshot of a cell phone  Description automatically generated | 15)A picture containing person, screenshot  Description automatically generated |

Convert the following measures from degrees to radians.

11) 300ᵒ 12) -120ᵒ

Convert the following from radians to degrees.

13)  14) 

Find a coterminal angle to each of the following angle measures:

15) -120ᵒ 16)  17) 

Write a trigonometric ratio and find the missing angles for each of the following right triangles:

|  |  |
| --- | --- |
| 18)Screen Clipping | 19)Image result for inverse sine and cosine right triangle worksheet 45 45 90  |
| 20)  7  | 21)Image result for inverse sine and cosine right triangle worksheet |