- 1. Which expression is equivalent to $(5^{-2}a^3b^{-4})^{-1}$?
 - 1. $\frac{10b^4}{a^3}$
- 52 a3 b4
- 2. $\frac{25b^4}{a^3}$
- $=\frac{25 b^4}{\Omega^3}$
- 4. $\frac{a^2}{125b^5}$

2. Simplify: $\left(\frac{9x^2z^4}{49x^{-2}}\right)^{\frac{1}{2}}$ 1. $\frac{9.5xz^2}{24.5x^{-1}}$ 2. $\frac{3xz^2}{7x^{-1}}$ 3. $\frac{3xz^2}{7x}$ 4. $\frac{3x^2z^2}{7}$

3. What is the product of $-3x^2y$ and $(5xy^2 + xy)$?

3.
$$-15x^2v^2 - 3x^2v$$

4.
$$-15x^3y^3 + xy$$

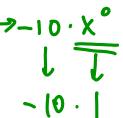
What is the product of
$$-3x^2y$$
 and $(5xy^2 + xy)$?

1. $-15x^3y^3 - 3x^3y^2$
2. $-15x^3y^3 - 3x^3y$
3. $-15x^2y^2 - 3x^2y$
4. $-15x^3y^3 + xy$

-15 $\chi^3 y^3 - 3\chi^3 \chi^2$

- 4. Evaluate: $-10x^0$
 - 1. 10
 - 3. -10x





5. Solve for c when,

$$\frac{a = \frac{b + 2c - d}{3}}{7}$$

$$3a = b + 2c - d$$

$$3a - b + d = 2c$$

$$2$$

6. Solve for x.

$$\sqrt{3x+3}+1 = x+8$$

$$(\sqrt{3x+3})^{2} = (x+1)^{2}$$

$$3x+3 = x^{2}+2x+1$$

$$-3x-3 = -3x-3$$

$$0 = x^{2}-x-2$$

$$= (x-2)(x+1)$$

$$x=2,-1$$

$$\sqrt{3(2)+3}+1 = (2)+2$$

$$\sqrt{3(4)+3}+1 = (-1)+2$$

7. Let circle O be described by

$$(x-3)^2 + (y+1)^2 = 4$$

radius: 2

Find the center and radius of the circle.
$$(x-h)^2+(y-k)^2=r^2$$
 (enter: $(3,-1)$ center: (h,k) radius: r

80 for X.

$$(x-2+1=x-1)$$
 $\sqrt{x-2}=x-2$
 $x-2=x^2-4x+4$
 $0=x^2-5x+6$
 $=(x-2)(x-3)$
 $x=2$, 3
 $\sqrt{2-2}+1=2-\sqrt{2}$