

$$\sqrt[5]{-32x^5y^{10}}$$

$$\downarrow$$

$$-2xy^2$$

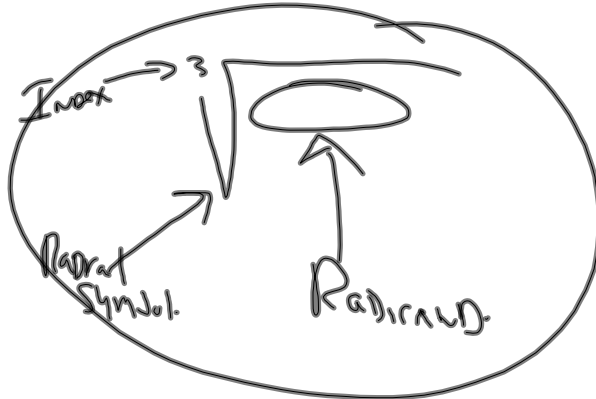
$$\frac{\sqrt[5]{y^{10}}}{\cancel{\sqrt[5]{(y^2)^5}}}$$

$$\sqrt[6]{x^{24}} = x^4$$

$$\sqrt[6]{(x^4)^6}$$

$$y = (x-5) \quad \sqrt[4]{(x-5)^8} \Rightarrow (x-5)^2$$

$$\sqrt[4]{y^8} = y^2 \sqrt[4]{x^8} =$$



$$\sqrt{x^6} = x^3$$

$$\sqrt{\cancel{x \cdot x} \cdot x \cdot x \cdot x \cdot x}$$

$$x \cdot x \sqrt{\cancel{x \cdot x} \cdot x \cdot x}$$

$$x \cdot x^2 \sqrt{\cancel{x \cdot x}}$$

$$x^3$$

$$\sqrt[3]{x^3} \cdot \sqrt[3]{x^2}$$

Power of Product
 $\frac{a^m \cdot a^n}{a^m} = a^{m+n}$

$$\sqrt[4]{x^5} = \sqrt[4]{x \cdot x \cdot x \cdot x \cdot x}$$

$$x^4 \sqrt{x}$$

$$(x^2)^4 = 8$$

$$x \cdot x \cdot x \cdot x \cdot x \cdot x$$

$$x^3 \sqrt{x^{25}}$$

$$x^8 \sqrt{x}$$

$$\sqrt{x^2 + 10x + 25}$$

$(x+5)(x+5)$
 $(5x+5)$

$$\sqrt{4} = 2 \cdot 2$$

$$-\sqrt{-32}$$

$$\downarrow$$

$$-(-2) = 2$$

$$-\sqrt{144}$$

$$-(12) = -12$$

$$-\sqrt{144x^3y^5}$$

$$= -12xy^2\sqrt{xy}$$

$$-\sqrt{144x^3y^5}$$

$$= -12xy^2\sqrt{xy}$$

$$\sqrt{\cancel{144} \cdot x}$$

$$\sqrt{7 \cdot 7 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot y}$$

$$\sqrt[5]{x^{16}y^{22}z^{10}}$$

$$x^3y^4z^2\sqrt[5]{xy^2}$$

$$\sqrt[5]{-32x^6y^{22}z^{10}}$$

$$-2x^3y^4z^2\sqrt[5]{xy^2}$$

① $\sqrt[3]{-64}$
-4

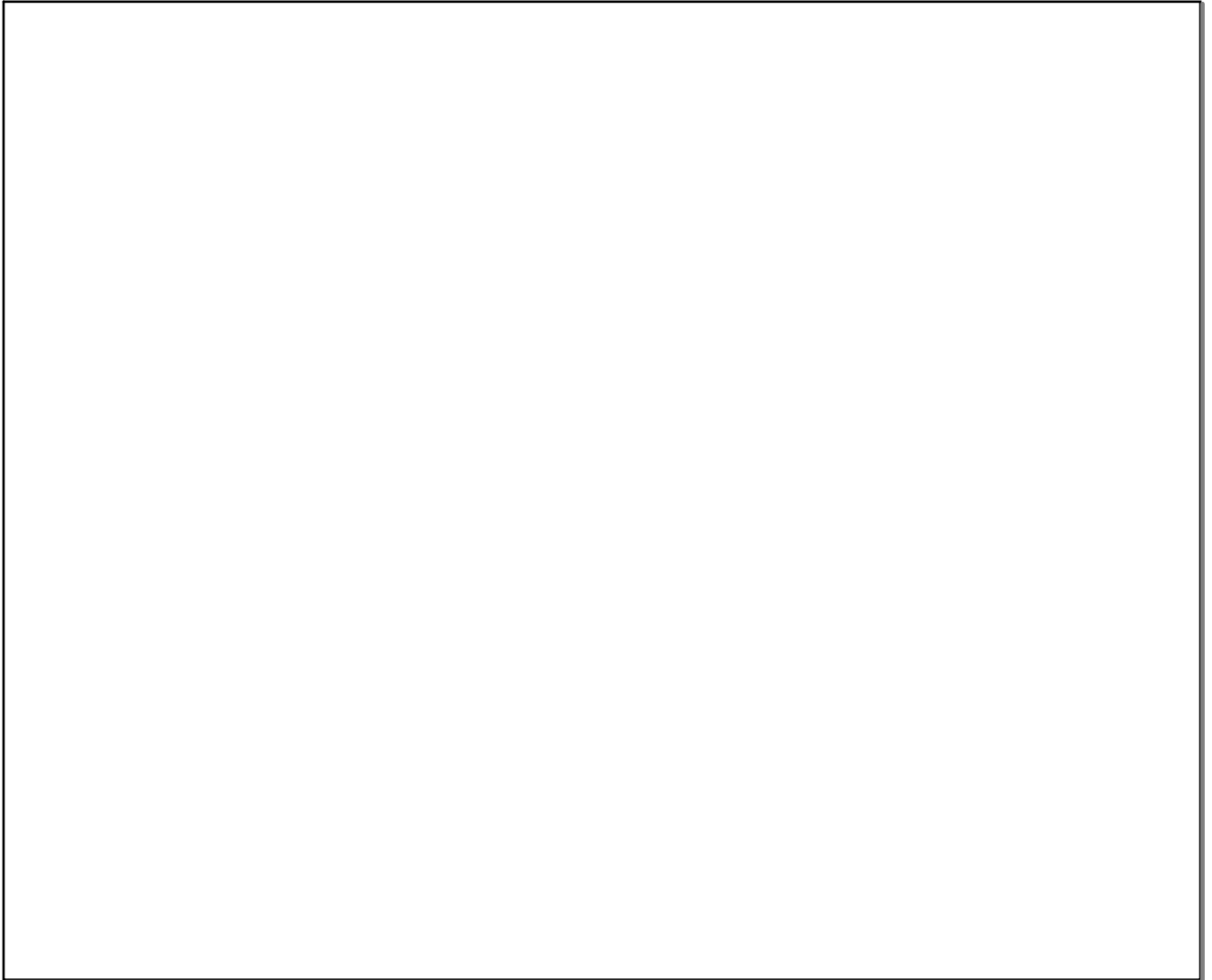
② $\sqrt{49m^2t^8}$
7mt⁴

③ $\sqrt[5]{-32x^5y^{10}}$
-2xy²

④ $\sqrt[3]{(2x+1)^3}$
2x+1

⑤ $\sqrt[3]{-8x^5y^9z^7}$
-2xy³z² $\sqrt[3]{xz}$

H20223



$$x = \sqrt{\frac{2k}{s}}$$

Solve for "k"

$$(x)^2 = \left(\sqrt{\frac{2k}{s}}\right)^2$$

$$s \cdot x^2 = \frac{2k}{s} \cdot s$$

$$\frac{x^2 s}{2} = k \quad k = \frac{x^2 s}{2}$$

$$k = \frac{x^2 s}{2}$$

