- 2) <u>a va</u>
- $22 \frac{5}{x}$
- 23 B

- 25 O Simplify 145 first & then multiply by 15
 - mu Hiply 145 by JS & then simplify

- 30 3va
- (3) Vax
- 32 X JIO
- 33 216n

Solutions

$$2) \int_{|a|}^{a^3} = \frac{\sqrt{a^3}}{\sqrt{|a|}} = \frac{\sqrt{a^2 \cdot a}}{\sqrt{|a|}} = \frac{a\sqrt{a}}{|a|}$$

$$\frac{100}{4x^2} = \frac{100}{\sqrt{4x^2}} = \frac{105}{2x} = \frac{5}{x}$$

23
$$\sqrt{\frac{9x}{16}} = \frac{\sqrt{9x}}{\sqrt{16}} = \frac{3\sqrt{x}}{4}$$
 B

$$3) \frac{3}{\sqrt{a}} \cdot \sqrt{a} = 3\sqrt{a}$$

3)
$$\frac{1}{\sqrt{2x}} \cdot \frac{\sqrt{2x}}{\sqrt{2x}} = \frac{\sqrt{2x}}{2x}$$

$$32 \int \frac{2x^2}{5} = \sqrt{\frac{2}{5}} = \frac{x\sqrt{3}}{5} \cdot \sqrt{5} = \frac{x\sqrt{10}}{5}$$

$$\frac{33}{3n^3} = \frac{\sqrt{8}}{\sqrt{3}n^3} = \frac{\sqrt{4 \cdot 2}}{\sqrt{3 \cdot n^2 \cdot n}} = \frac{2\sqrt{2}}{\sqrt{3}n} \cdot \frac{\sqrt{3}n}{\sqrt{3}n} = \frac{2\sqrt{6}n}{n \cdot 3n} = \frac{2\sqrt{6}n}{3n^2}$$