



Math worksheet on 'Radicals - Convert Square Root, Values and Variables, to Exponents - Negative (Level 2)'. Part of a broader unit on 'Radicals - Simplifying Practice'

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<b>1</b>  $\frac{1}{\sqrt{7b^3x^5}}$	<b>a</b> $7^{\frac{1}{2}} \cdot b^{\frac{3}{2}} \cdot x^{\frac{5}{2}}$	<b>b</b> $7^{-\frac{1}{3}} \cdot b^{-\frac{3}{3}} \cdot x^{-\frac{5}{3}}$
	<b>c</b> $7^{-\frac{1}{2}} \cdot b^{-\frac{2}{2}} \cdot x^{-\frac{7}{2}}$	<b>d</b> $7^{-\frac{1}{2}} \cdot b^{-\frac{3}{2}} \cdot x^{-\frac{6}{2}}$
	<b>e</b> $7^{-\frac{1}{2}} \cdot b^{-\frac{3}{2}} \cdot x^{-\frac{5}{2}}$	<b>f</b> $7^{-\frac{1}{2}} \cdot b^{-\frac{5}{2}} \cdot x^{-\frac{6}{2}}$

<b>2</b>  $\frac{1}{\sqrt{11r^5z^5}}$	<b>a</b> $11^{\frac{1}{2}} \cdot r^{\frac{5}{2}} \cdot z^{\frac{5}{2}}$	<b>b</b> $44^{-\frac{1}{2}} \cdot r^{-\frac{5}{2}} \cdot z^{-\frac{5}{2}}$
	<b>c</b> $11^{-\frac{1}{3}} \cdot r^{-\frac{5}{3}} \cdot z^{-\frac{5}{3}}$	<b>d</b> $11^{-\frac{1}{2}} \cdot r^{-\frac{7}{2}} \cdot z^{-\frac{4}{2}}$
	<b>e</b> $11^{-\frac{1}{2}} \cdot r^{-\frac{5}{2}} \cdot z^{-\frac{5}{2}}$	<b>f</b> $22^{-\frac{1}{2}} \cdot r^{-\frac{5}{2}} \cdot z^{-\frac{5}{2}}$

<b>3</b>  $\frac{1}{\sqrt{11m^5y}}$	<b>a</b> $11^{-\frac{1}{2}} \cdot m^{-\frac{4}{2}} \cdot y^{-\frac{2}{2}}$	<b>b</b> $11^{-\frac{1}{2}} \cdot m^{-\frac{7}{2}}$
	<b>c</b> $11^{-\frac{1}{2}} \cdot m^{-\frac{5}{2}} \cdot y^{-\frac{1}{2}}$	<b>d</b> $11^{\frac{1}{2}} \cdot m^{\frac{5}{2}} \cdot y^{\frac{1}{2}}$
	<b>e</b> $11^{-\frac{1}{2}} \cdot m^{-\frac{4}{2}} \cdot y^{-\frac{1}{2}}$	<b>f</b> $44^{-\frac{1}{2}} \cdot m^{-\frac{5}{2}} \cdot y^{-\frac{1}{2}}$

<b>4</b>  $\frac{1}{\sqrt{5n^5c}}$	<b>a</b> $10^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}} \cdot c^{-\frac{1}{2}}$	<b>b</b> $5^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}} \cdot c^{-\frac{1}{2}}$
	<b>c</b> $15^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}} \cdot c^{-\frac{1}{2}}$	<b>d</b> $5^{-\frac{1}{3}} \cdot n^{-\frac{5}{3}} \cdot c^{-\frac{1}{3}}$
	<b>e</b> $20^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}} \cdot c^{-\frac{1}{2}}$	<b>f</b> $5^{\frac{1}{2}} \cdot n^{\frac{5}{2}} \cdot c^{\frac{1}{2}}$

<b>5</b>  $\frac{1}{\sqrt{3dn^5}}$	<b>a</b> $3^{\frac{1}{2}} \cdot d^{\frac{1}{2}} \cdot n^{\frac{5}{2}}$	<b>b</b> $3^{-\frac{1}{2}} \cdot d^{-\frac{1}{2}} \cdot n^{-\frac{7}{2}}$
	<b>c</b> $9^{-\frac{1}{2}} \cdot d^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}}$	<b>d</b> $3^{-\frac{1}{2}} \cdot d^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}}$
	<b>e</b> $12^{-\frac{1}{2}} \cdot d^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}}$	<b>f</b> $6^{-\frac{1}{2}} \cdot d^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}}$

<b>6</b>  $\frac{1}{\sqrt{5m^5n^5}}$	<b>a</b> $5^{-\frac{1}{2}} \cdot m^{-\frac{7}{2}} \cdot n^{-\frac{6}{2}}$	<b>b</b> $5^{-\frac{1}{2}} \cdot m^{-\frac{5}{2}} \cdot n^{-\frac{5}{2}}$
	<b>c</b> $5^{-\frac{1}{2}} \cdot m^{-\frac{6}{2}} \cdot n^{-\frac{7}{2}}$	<b>d</b> $5^{-\frac{1}{3}} \cdot m^{-\frac{5}{3}} \cdot n^{-\frac{5}{3}}$
	<b>e</b> $5^{\frac{1}{2}} \cdot m^{\frac{5}{2}} \cdot n^{\frac{5}{2}}$	<b>f</b> $5^{-\frac{1}{2}} \cdot m^{-\frac{5}{2}} \cdot n^{-\frac{6}{2}}$

<b>7</b>  $\frac{1}{\sqrt{3rd^5}}$	<b>a</b> $12^{-\frac{1}{2}} \cdot r^{-\frac{1}{2}} \cdot d^{-\frac{5}{2}}$	<b>b</b> $3^{-\frac{1}{2}} \cdot r^{-\frac{2}{2}} \cdot d^{-\frac{6}{2}}$
	<b>c</b> $3^{-\frac{1}{2}} \cdot r^{-\frac{3}{2}} \cdot d^{-\frac{6}{2}}$	<b>d</b> $3^{\frac{1}{2}} \cdot r^{\frac{1}{2}} \cdot d^{\frac{5}{2}}$
	<b>e</b> $3^{-\frac{1}{2}} \cdot r^{-\frac{1}{2}} \cdot d^{-\frac{5}{2}}$	<b>f</b> $3^{-\frac{1}{3}} \cdot r^{-\frac{1}{3}} \cdot d^{-\frac{5}{3}}$