



Math worksheet on 'Radicals - Adding and Subtracting from Simplified (Values and Variables) (Level 3)'. Part of a broader unit on 'Radicals - Addition and Subtraction Intro'

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**2** Add or subtract the radical expressions

$$5z\sqrt{2} + 3z^2\sqrt{2}$$

<b>a</b>	$5z\sqrt{5} + z$	<b>b</b>	$z\sqrt{4} + 4z$
<b>c</b>	$3z^2 + 3z\sqrt{2}$	<b>d</b>	$4z^3$
<b>e</b>	$7z\sqrt{3} + 2z$	<b>f</b>	$5z\sqrt{2} + 3z^2\sqrt{2}$

**4** Add or subtract the radical expressions

$$2m\sqrt{3m} - 5\sqrt{3}$$

<b>a</b>	$4m\sqrt{m^3} - 3$	<b>b</b>	$m\sqrt{m} - 8\sqrt{4}$
<b>c</b>	$3m^3\sqrt{m} - 5\sqrt{6}$	<b>d</b>	$2m\sqrt{3m} - 5\sqrt{3}$
<b>e</b>	$3m\sqrt{2m} - 2$	<b>f</b>	$m^2\sqrt{5m} - 8\sqrt{2}$

**6** Add or subtract the radical expressions

$$2r\sqrt{7} + 5r\sqrt{7r}$$

<b>a</b>	$2r\sqrt{7} + 5r\sqrt{7r}$	<b>b</b>	$4r\sqrt{4} + 7r\sqrt{7r}$
<b>c</b>	$3r\sqrt{10} + 2r^2\sqrt{4r^3}$	<b>d</b>	$r^3\sqrt{7} + r^3\sqrt{9r}$
<b>e</b>	$5r^3\sqrt{9} + 6r\sqrt{7r}$		

**1** Add or subtract the radical expressions

$$2z^2\sqrt{7} + 3z^2\sqrt{7}$$

<b>a</b>	$z^2\sqrt{7}$	<b>b</b>	$5z^2\sqrt{7} + 4z\sqrt{7}$
<b>c</b>	$5z^2\sqrt{7}$	<b>d</b>	$4z\sqrt{9} + 5z^4\sqrt{3}$
<b>e</b>	$5z^4\sqrt{7}$	<b>f</b>	$5z^3\sqrt{7}$

**3** Add or subtract the radical expressions

$$4\sqrt{2b} - 5b\sqrt{2}$$

<b>a</b>	$2\sqrt{b} - 3b$	<b>b</b>	$4\sqrt{2b} - 5b\sqrt{2}$
<b>c</b>	$2\sqrt{b^2} - 5b\sqrt{2}$	<b>d</b>	$\sqrt{2b} - 3b^3$
<b>e</b>	$3\sqrt{b} - 6b^2\sqrt{3}$	<b>f</b>	$2\sqrt{b} - 3b\sqrt{2}$

**5** Add or subtract the radical expressions

$$3\sqrt{2r} - 4\sqrt{2}$$

<b>a</b>	$5\sqrt{r^3} - 2\sqrt{4}$	<b>b</b>	$3\sqrt{3r} - 2$
<b>c</b>	$4\sqrt{3r} - 3$	<b>d</b>	$5\sqrt{3r^2} - 7$
<b>e</b>	$6\sqrt{r} - 3$	<b>f</b>	$3\sqrt{2r} - 4\sqrt{2}$

**7** Add or subtract the radical expressions

$$3r\sqrt{3} + 4\sqrt{3r}$$

<b>a</b>	$r\sqrt{5} + 6\sqrt{2r}$	<b>b</b>	$2r^3\sqrt{3} + 5\sqrt{6r}$
<b>c</b>	$3r\sqrt{3} + 4\sqrt{3r}$	<b>d</b>	$r\sqrt{6} + 6\sqrt{r}$
<b>e</b>	$5r + 5\sqrt{4r}$		