

1. 010822b, A2.A.1

Solve for all values of  $x$ :  $|2x - 5| = 3$

3. 080923b, P.I. A2.A.1

Solve for the negative value of  $x$ :

$$|2x + 5| + 1 = 13$$

2. 080822b, A2.A.1

Solve for all values of  $x$ :  $|3x - 2| = 6$

4. 080616b

What is the solution set of the equation

$$|x^2 - 2x| = 3x - 6?$$

[A]  $\{\pm 3\}$

[B]  $\{2, 3\}$

[C]  $\{2, \pm 3\}$

[D]  $\{2\}$

[2] 1 and 4, and appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] 1 and 4, but no work is shown.

[0] 1 or 4, but no work is shown.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[1] obviously incorrect procedure.

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[2]  $\frac{8}{3}$  and  $-\frac{4}{3}$ , and appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1]  $3x - 2 = 6$  and  $3x - 2 = -6$ , but no further correct work is shown.

or [1]  $\frac{8}{3}$  or  $-\frac{4}{3}$ , and appropriate work is shown.

or [1]  $\frac{8}{3}$  and  $-\frac{4}{3}$ , but no work is shown.

[0]  $\frac{8}{3}$  or  $-\frac{4}{3}$ , but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[2] incorrect procedure.

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[2]  $-\frac{17}{2}$  or an equivalent answer, and

appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] Appropriate work is shown, but only the positive value is found.

or [1]  $-\frac{17}{2}$  or an equivalent answer, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure.

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[4] B

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