Period:	Name:						
Chapter 5 Assignment – Radical Expressions & Equations							
/30							
Show all of your w	ork.						
1) Simplify (1 mark	each):						
a) $\sqrt{16x^7}$	b) $\sqrt{90}$	c) $\sqrt{20x^8y^5}$	d) $\sqrt[3]{125m^{11}}$				
ANSWER:	ANSWER:	ANSWER:	ANSWER:				
2) Change to an entire radical (1 mark each):							
a) $4\sqrt{5}$		b) 2∛6					

ANSWER:

3) Write another way (**as a radical**), then simplify (1 mark):  $32^{\frac{1}{4}}$ 

ANSWER:

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4) Simplify (2 marks each):

a) 
$$-6\sqrt{12} + 2\sqrt{8} - 5\sqrt{75}$$
 b)  $3\sqrt[3]{16x^4y^5} - xy\sqrt[3]{54xy^2}$ 

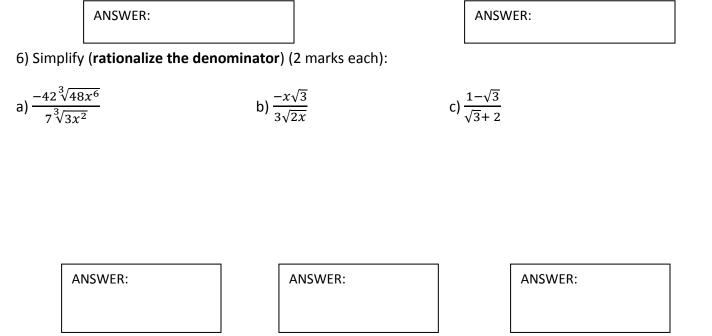
ANSWER:

5) Simplify (2 marks each):

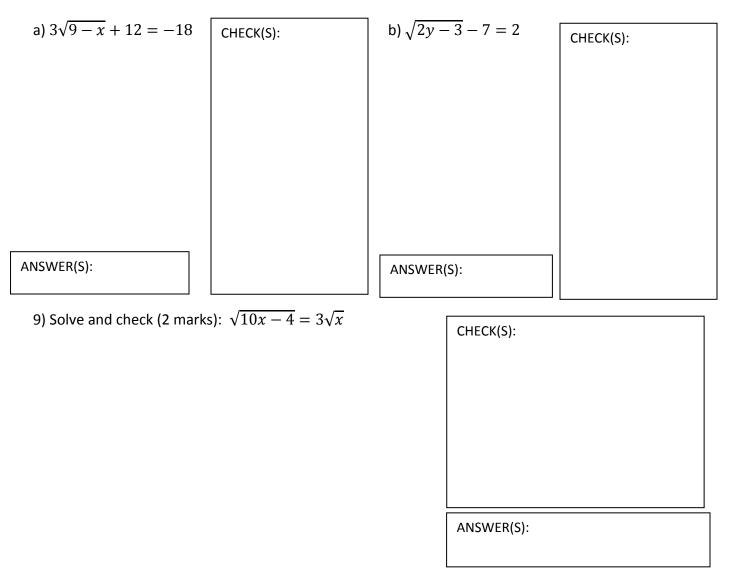
a)  $-2\sqrt{6x}(3\sqrt{2x})$ 

b)  $(2\sqrt{3} - \sqrt{2})(2\sqrt{3} + 3\sqrt{2})$ 

ANSWER:



7) Solve and check (2 marks each):



10) The volume of a sphere is  $V = \frac{4}{3}\pi r^3$ . If the volume of a sphere is  $36cm^3$ , what is the radius? (answer in exact form) (3 marks)

SENTENCE ANSWER: