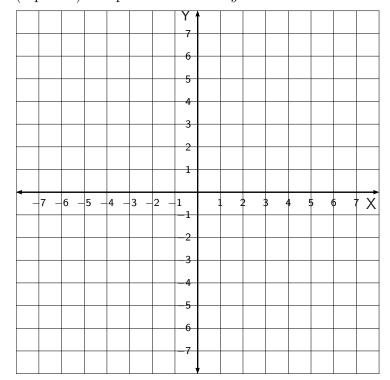
Name:	Exam 3	
Sec 4	Name:	
Winter 2019		
Final Exam		Time Limit: 180 min

- DO NOT open the exam booklet until you are told to begin. You should write your name and section number at the top and read the instructions.
- Organize your work, in a reasonably neat and coherent way, in the space provided. If you wish for something to not be graded, please strike it out neatly. I will grade only work on the exam paper, unless you clearly indicate your desire for me to grade work on additional pages.
- You may use any results from class, homework or the text, but you must cite the result you are using. You must prove everything else.
- You needn't spend your time rewriting definitions or axioms on the exam.
- Show all of your work. You may not receive full credit for correct answers if supporting work is not demonstrated.

l	Problem	Points	Score
)	1	5	
l	2	5	
)	3	5	
	4	5	
L	5	5	
	6	5	
	Total:	30	

- 1. (5 points) Factor completely $7x^3 21x^2y + 49xy^2$.
- 2. (5 points) Factor completely $6x^2 + 13x 5$.
- 3. (5 points) Solve the system of linear equations using the method of your choosing $\begin{cases} 2x+1=3\\ 3x-4=1 \end{cases}$
- 4. (5 points) Find the equation of the line perpendicular to the line $y = \frac{1}{3}x + 1$ going through the point (4, 2).
- 5. (5 points) Graph the line 2x y = 2



6. (5 points) Find the value of x in the following triangle.

