## **<u>Part A</u>** Graph the line with the given slope that contains the given point. **20.** $slope = -\frac{1}{2}$ ; (3, 1) **21.** slope = 3/5; (1, -2) **22.** slope = 4; (-1, 0)

Write an equation in point-slope form for the line with the given slope that contains the given point. 23. slope = 2/9; (-1, 5)

- **24.** slope = 0; (4, -2)
- **25.** slope = 8; (1, 8)
- **26.** slope = ½; (-8, 3)
- **27.** slope = 3; (4, 7)
- **28.** slope = -2; (-1, 3)

Write an equation in slope-intercept form for the line with the given slope that contains the given point. 29. slope = -2/7; (14, -3)

- **30.** slope = 4/5; (-15, 1)
- **31.** slope = -1/4; (4, -1)
- **32.** slope = -6; (9, 3)

## Write an equation in slope-intercept form for the line through the two points.

**35.** (7, 8) and (-7, 6)

- **36.** (2, 7) and (-4, 4)
- **37.** (-1, 2) and (4, -23)
- **38.** (4, -1) and (-8, -10)
- **39.** (0, 11) and (-7, -3)
- **40.** (1, 27) and (-2, 12)

## <u>Part B</u>

Write an equation in slope-intercept form for the line that is parallel to the given line and that passes through the given point.

<b>22.</b> $y = 3x - 7$ ; (0, 4)	<b>23.</b> $y = \frac{1}{2}x + 5$ ; (4, -3)	<b>24.</b> $4y = x$ ; (4, 0)
<b>25.</b> $y = 2x + 3$ ; (1, 7)	<b>26.</b> 5 <i>x</i> - 2 <i>y</i> = 10; (3, -5)	<b>27.</b> $y = 3x - 4$ ; (-2, 7)

<b>28.</b> <i>y</i> = 7; (2, 4)	<b>29.</b> <i>x</i> + <i>y</i> = 1; (2, 3)	<b>30.</b> 2 <i>x</i> + 3 <i>y</i> = 7; (4, 5)
<b>31.</b> $y = 4x + 2; (5, -3)$	<b>32.</b> $y = \frac{1}{2}x - 1; (0, -4)$	<b>33.</b> 3 <i>x</i> + 4 <i>y</i> = 8; (4, -3)

Write an equation in slope-intercept form for the line that is perpendicular to the given line and that passes through the given point.

<b>34.</b> <i>y</i> = -3 <i>x</i> + 4; (6, -2)	<b>35.</b> <i>y</i> = <i>x</i> - 6; (-1, 2)	<b>36.</b> 3 <i>x</i> - 4 <i>y</i> = 8; (-6, 5)
<b>37.</b> 5 <i>x</i> + 2 <i>y</i> = 10; (3, -5)	<b>38.</b> <i>y</i> = 5 - 3 <i>x</i> ; (2, -4)	<b>39.</b> $-10x + 2y = 8; (4, -3)$
<b>40.</b> 2 <i>x</i> + 3 <i>y</i> = 7; (4, 5)	<b>41.</b> 4 <i>x</i> - 2 <i>y</i> = -6; (3, -2)	<b>42.</b> -2 <i>x</i> - 8 <i>y</i> = 16; (4, 5)
<b>43.</b> $y = -2x + 4$ ; (-2, 5)	<b>44.</b> <i>y</i> = <i>x</i> - 5; (0, 5)	<b>45.</b> <i>x</i> + <i>y</i> = 2; (8, 5)